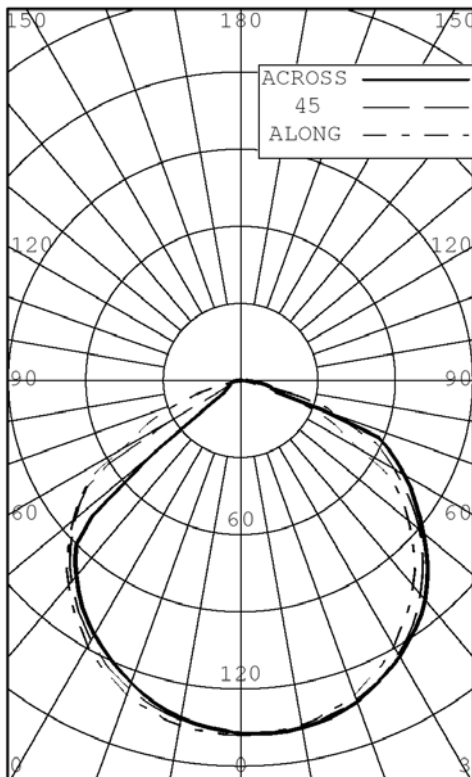




CERTIFIED TEST REPORT No. 27334

FINELITE INC - CURVE LED DESK LAMP LUMINAIRE, CAT# DL-C
WITH WHITE INTERIOR AND NO LENS
FOUR LEDS. LUMINAIRE OUTPUT = 363 LMS.
LUMINAIRE OPERATING AT 120 VAC AND 7.4 WATTS



ANGLE	INTENSITY (CANDLEPOWER) SUMMARY				OUTPUT LUMENS
	ALONG	BEAM SIDE		ACROSS	
0	138	67.5	45	22.5	138
5	137	138	138	138	138
10	136	138	138	138	138
15	133	136	137	137	137
20	130	134	135	135	136
25	125	131	132	133	133
30	119	126	128	128	129
35	112	121	123	123	124
40	104	114	116	117	118
45	95	112	116	117	118
50	85	107	109	110	111
55	74	104	107	110	111
60	53	97	100	102	103
65	40	88	91	92	93
70	24	77	80	81	83
75	9	63	69	72	73
80	3	43	58	62	64
85	2	30	39	51	35
90	0	15	24	13	13
		9	10	11	9
		6	9	10	11
		3	5	5	5
		0	0	0	0

BOTH SIDES ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	108	29.85
0-40	179	49.28
0-60	311	85.80
0-90	363	100.00
40-90	184	50.72
60-90	52	14.20
90-180	0	0.00
0-180	363	100.00

EFFICACY (LUMENS PER WATT) : 49.0

*** THIS IS AN ABSOLUTE TEST ***

LUMINOUS LENGTH: 1.187 INS
WIDTH: 0.750 INS

LUMINANCE SUMMARY - CD./SQ.M.

ANGLE	BEAM SIDE		
	ALONG	45	ACROSS
45	233914	247667	253820
55	224626	242945	252233
65	164790	239950	262604
75	60543	159439	87475
85	39954	95640	109513

CERTIFIED BY:

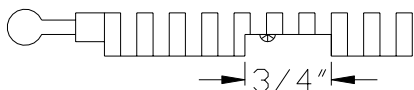
James E. Walker III

DATE:
AUG 24, 2010

PREPARED FOR:

FINELITE INC
UNION CITY

TESTED IN ACCORDANCE WITH IES PROCEDURES.



LIGHTING SCIENCES, INC.
 7826 E. EVANS RD.
 SCOTTSDALE, AZ, USA 85260

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BEAM SIDE
 INTENSITY (CANDLEPOWER) DATA
 IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	67.5	45	22.5	ACROSS	AVERAGE	
0.0	138	138	138	138	138	138	
2.5	138	138	138	138	138	138	
5.0	137	138	138	138	138	138	7
7.5	137	137	138	138	138	138	
10.0	136	136	137	137	137	137	
12.5	135	135	136	137	137	136	
15.0	133	134	135	135	136	135	19
17.5	132	133	134	134	135	133	
20.0	130	131	132	133	133	132	
22.5	128	129	130	131	131	130	
25.0	125	126	128	128	129	127	29
27.5	122	124	125	126	126	125	
30.0	119	121	123	123	124	122	
32.5	116	118	120	120	121	119	
35.0	112	114	116	117	118	116	36
37.5	108	111	113	114	115	112	
40.0	104	107	109	110	111	108	
42.5	100	102	104	106	107	104	
45.0	95	97	100	102	103	100	38
47.5	90	92	96	97	98	95	
50.0	85	88	91	92	93	90	
52.5	80	82	85	87	88	85	
55.0	74	77	80	81	83	79	35
57.5	67	71	74	77	78	74	
60.0	53	63	69	72	73	67	
62.5	45	50	63	67	68	59	
65.0	40	43	58	62	64	54	26
67.5	33	39	47	57	58	47	
70.0	24	30	39	51	35	37	
72.5	18	23	35	19	15	23	
75.0	9	15	24	13	13	16	9
77.5	4	9	11	12	12	10	
80.0	3	6	9	10	11	8	
82.5	3	5	7	8	8	6	
85.0	2	3	5	5	5	4	2
87.5	1	2	2	3	3	2	
90.0	0	0	0	0	0	0	

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BEAM SIDE
AVERAGE LUMINANCE DATA

CD./SQ.M (FOOTLAMBERTS)

ANGLE	ALONG	67.5	45	22.5	ACROSS
0	239912 (70022)	239912 (70022)	239912 (70022)	239912 (70022)	239912 (70022)
30	239240 (69825)	243393 (71037)	247332 (72187)	248313 (72473)	249094 (72701)
40	236373 (68989)	243047 (70936)	247141 (72131)	251280 (73339)	253375 (73951)
45	233914 (68271)	239713 (69963)	247667 (72285)	251595 (73431)	253820 (74081)
50	230234 (67197)	238047 (69477)	245588 (71678)	250084 (72990)	250774 (73192)
55	224626 (65560)	233654 (68195)	242945 (70907)	247464 (72226)	252233 (73618)
60	184555 (53865)	220106 (64241)	240112 (70080)	250241 (73036)	255170 (74475)
65	164790 (48096)	176904 (51632)	239950 (70032)	256772 (74942)	262604 (76644)
70	122174 (35658)	152730 (44576)	200998 (58664)	260972 (76168)	178048 (51966)
75	60543 (17670)	100854 (29435)	159439 (46534)	87785 (25621)	87475 (25531)
80	30079 (8779)	59311 (17310)	87433 (25518)	105075 (30667)	106200 (30996)
85	39954 (11661)	63139 (18428)	95640 (27913)	106943 (31213)	109513 (31963)

LUMINOUS LENGTH: 1.187 INS
WIDTH: 0.750 INS

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 LUMINAIRE OPERATING AT 120 VAC AND 7.4 WATTS

OPPOSITE SIDE TO BEAM
 INTENSITY (CANDLEPOWER) DATA
 IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	112.5	135	157.5	ACROSS	AVERAGE	
0.0	138	138	138	138	138	138	
2.5	138	138	137	137	137	137	
5.0	137	137	136	136	136	136	7
7.5	137	136	135	135	135	135	
10.0	136	135	134	134	133	134	
12.5	135	134	133	132	132	133	
15.0	133	132	131	130	130	131	19
17.5	132	131	130	128	128	130	
20.0	130	129	127	126	125	127	
22.5	128	126	125	123	123	125	
25.0	125	124	123	121	120	123	28
27.5	122	121	120	118	117	120	
30.0	119	119	117	115	114	117	
32.5	116	115	113	112	111	113	
35.0	112	112	110	108	108	110	34
37.5	108	108	106	105	104	106	
40.0	104	104	102	101	99	102	
42.5	100	100	98	97	95	98	
45.0	95	95	94	92	90	93	36
47.5	90	91	89	87	78	88	
50.0	85	86	84	74	45	77	
52.5	80	81	79	42	13	62	
55.0	74	75	73	11	7	50	23
57.5	67	70	61	7	7	44	
60.0	53	60	31	7	6	32	
62.5	45	47	8	6	5	21	
65.0	40	41	6	6	5	19	10
67.5	33	36	5	5	5	16	
70.0	24	24	5	5	5	12	
72.5	18	12	5	5	5	8	
75.0	9	4	4	5	4	5	3
77.5	4	3	4	4	4	4	
80.0	3	3	3	4	4	3	
82.5	3	2	2	3	2	2	
85.0	2	1	1	1	1	1	1
87.5	1	0	0	0	0	0	
90.0	0	0	0	0	0	0	

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COEFFICIENTS OF UTILIZATION

ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

CC WALL	90				80				70				50				30				10				0
	70	50	30	10	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																									
0	1.221	1.221	1.221	1.22	1.191	1.191	1.191	1.19	1.161	1.161	1.161	1.16	1.111	1.111	1.11	1.061	1.061	1.06	1.021	1.021	1.02	1.00			
1	1.131	1.091	1.051	1.02	1.111	1.071	1.031	1.00	1.081	1.051	1.010	0.98	1.000	0.980	0.95	0.960	0.940	0.92	0.930	0.910	0.90	0.88			
2	1.050	0.980	0.920	0.86	1.020	0.960	0.900	0.85	1.000	0.940	0.880	0.84	0.900	0.860	0.82	0.870	0.840	0.80	0.840	0.810	0.79	0.77			
3	0.960	0.870	0.790	0.73	0.940	0.850	0.780	0.73	0.920	0.840	0.770	0.72	0.810	0.750	0.71	0.780	0.740	0.70	0.760	0.720	0.68	0.67			
4	0.890	0.780	0.700	0.64	0.870	0.770	0.690	0.63	0.850	0.760	0.690	0.63	0.730	0.670	0.62	0.710	0.660	0.61	0.690	0.640	0.60	0.58			
5	0.830	0.700	0.610	0.55	0.810	0.690	0.610	0.55	0.780	0.680	0.600	0.55	0.660	0.590	0.54	0.640	0.580	0.53	0.620	0.570	0.53	0.51			
6	0.760	0.630	0.540	0.48	0.740	0.620	0.540	0.48	0.720	0.610	0.530	0.47	0.590	0.520	0.47	0.580	0.510	0.47	0.560	0.510	0.46	0.44			
7	0.700	0.560	0.480	0.42	0.680	0.550	0.470	0.42	0.670	0.550	0.470	0.41	0.530	0.460	0.41	0.520	0.450	0.40	0.500	0.450	0.40	0.38			
8	0.650	0.510	0.430	0.37	0.630	0.500	0.420	0.37	0.620	0.490	0.420	0.36	0.480	0.410	0.36	0.470	0.410	0.36	0.460	0.400	0.36	0.34			
9	0.600	0.460	0.380	0.32	0.580	0.460	0.380	0.32	0.570	0.450	0.370	0.32	0.440	0.370	0.32	0.430	0.360	0.32	0.420	0.360	0.31	0.30			
10	0.550	0.420	0.340	0.28	0.540	0.410	0.340	0.28	0.530	0.410	0.340	0.28	0.400	0.330	0.28	0.390	0.320	0.28	0.380	0.320	0.28	0.26			

THE ABOVE COEFFICIENTS HAVE BEEN CALCULATED BASED ON LUMINAIRE LUMENS
 BECAUSE IN AN ABSOLUTE TEST THE BARE LAMP LUMENS ARE UNKNOWN.
 LIGHTING DESIGN CALCULATIONS MADE USING THESE COEFFICIENTS SHOULD
 THEREFORE USE THE LUMINAIRE LUMENS IN THE CALCULATION FORMULA

LUMINAIRE INPUT WATTS 7.4

LABORATORY RESULTS MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
 BALLAST AND FIELD FACTORS HAVE NOT BEEN APPLIED.

TEST DISTANCE EXCEEDS FIVE TIMES THE GREATEST
 LUMINOUS OPENING OF LUMINAIRE.

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LUMINAIRE OPERATING AT 120 VAC AND 7.4 WATTS

ELECTRICAL MEASUREMENTS

INPUT VOLTAGE:	120.0	VOLTS AC
INPUT CURRENT:	0.062	AMPS
INPUT POWER:	7.4	WATTS
POWER FACTOR:	99.5	PERCENT
TOTAL HARMONIC DISTORTION:	10.40	PERCENT
OFF STATE POWER:	0.00	WATTS

LIGHT OUTPUT

LUMENS:	363	lm
EFFICACY:	49.0	lm/W

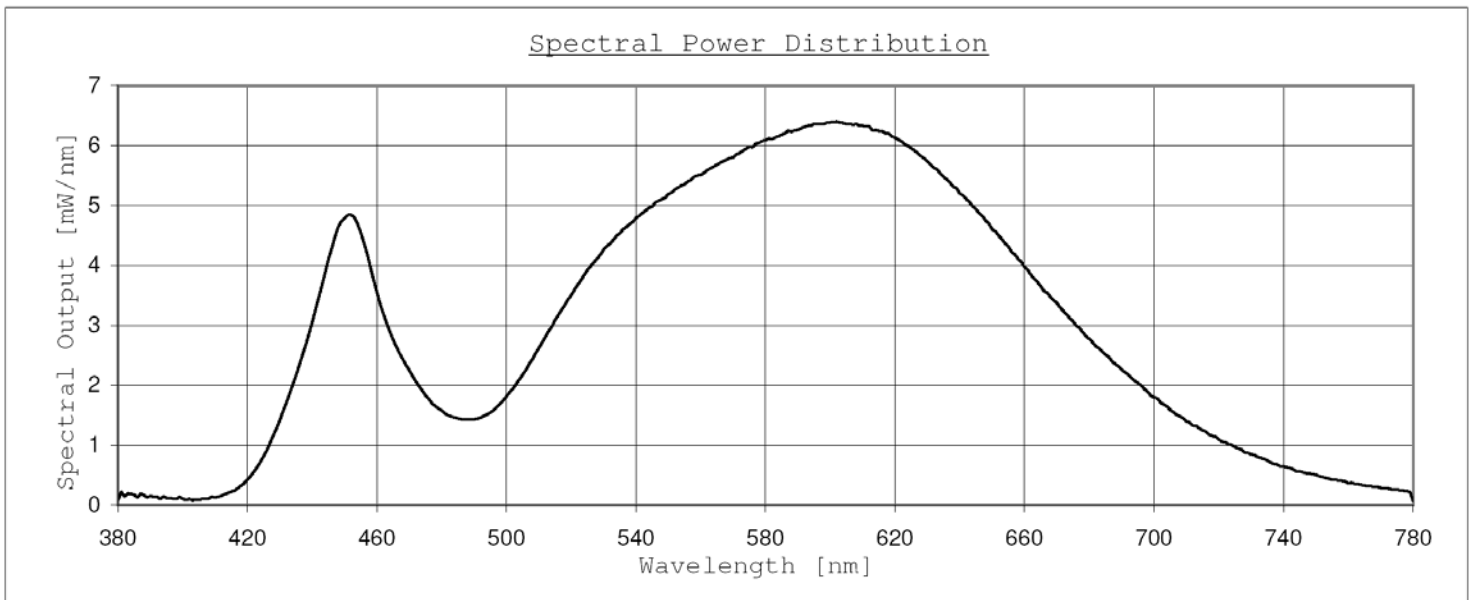
SPECTRAL MEASUREMENTS

X:	0.4074	
y:	0.3852	
u/u':	0.2394	
v:	0.3395	
v':	0.5093	
Duv:	0.0029	
CRI (R _a):	82.7	
CRI (R _g):	28.2	
CCT:	3407	K
RADIANT FLUX:	1188	mW

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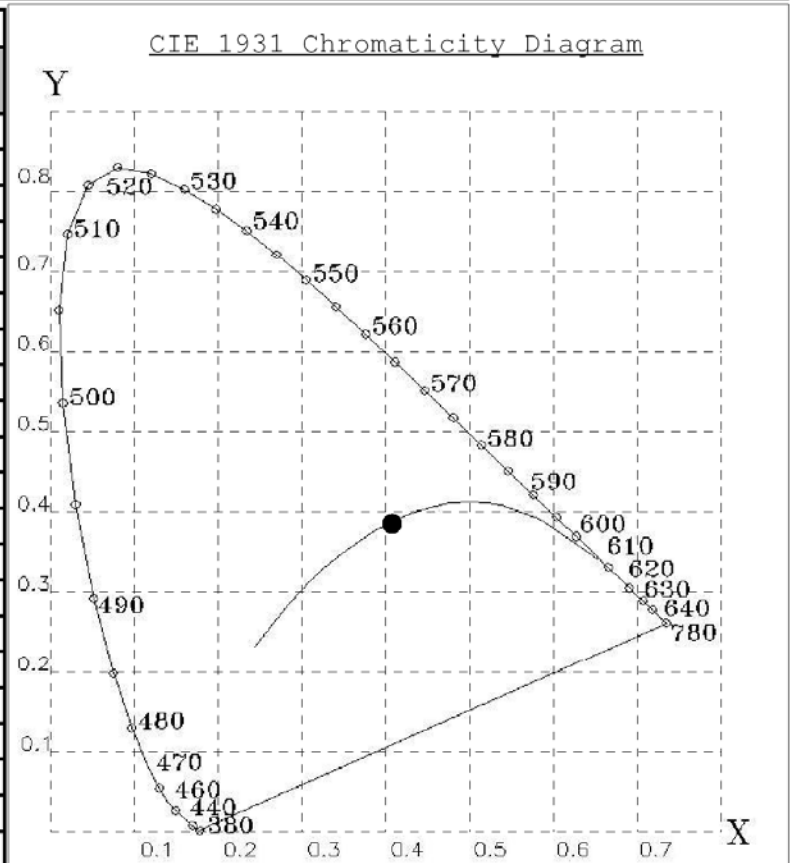
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Tabulated Spectral Power Distribution

Wavelength [nm]	[mW/nm]	Wavelength [nm]	[mW/nm]
380	0.08167	590	6.26265
390	0.15291	600	6.39043
400	0.10238	610	6.33179
410	0.12798	620	6.13460
420	0.42915	630	5.73637
430	1.42088	640	5.20031
440	3.05390	650	4.60369
450	4.78772	660	3.97018
460	3.54874	670	3.37229
470	2.24813	680	2.77767
480	1.57592	690	2.26096
490	1.43271	700	1.79751
500	1.81865	710	1.39821
510	2.62323	720	1.09298
520	3.50280	730	0.84859
530	4.26649	740	0.64608
540	4.79523	750	0.50939
550	5.19347	760	0.36147
560	5.51212	770	0.28727
570	5.80431	780	0.07692
580	6.09032		



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LUMINOUS OPENING



SIDE VIEW



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All testing was conducted in accordance with LM-79-08,

Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products as published by the Illuminating Engineering Society of North America (IESNA).

The condition of the item tested was new. Stabilization time before testing exceeded 16 hours.

The test results (luminous distribution and flux) were obtained by using a Lighting Sciences series 6000 Type C Moving Mirror Goniophotometer

- The photometric reference standard used is a set of three incandescent luminous intensity standard lamps calibrated and traceable to the U.S. National Institute of Standards and Technology.

The test results (colorimetric and luminous flux) were obtained by using a Lighting Sciences model 4000 Integrating Sphere of either 1 or 2 meters diameter, having an internal reflectance exceeding 0.80. 4π geometry was used. Correction factors were applied for spectral mismatch and self-absorption. The spectroradiometer employed was a LSC model 500E having a bandwidth of .84.

- The photometric reference standard used is a set of three incandescent luminous flux standard lamps calibrated and traceable to the U.S. National Institute of Standards and Technology.
- The colorimetric reference standard used is an incandescent spectral standard lamp calibrated and traceable to the U.S. National Institute of Standards and Technology.

Power measurements were obtained with a Yokogawa WT210 power analyzer.

Ambient temperature during testing was $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$, measured using an Omega model DP460.

Calibration certificates are on file at the laboratories of Lighting Sciences Inc.