

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P384724

Luminaire Tested: **24ID-90-L840-CFD3**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384724
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-69)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-90-L840-CFD3
Description: 2X4 IN DEPTH TROFFER WITH 3INCH DROP CUBE LENS

Light Source: -
Ballast/Driver: -

Summary

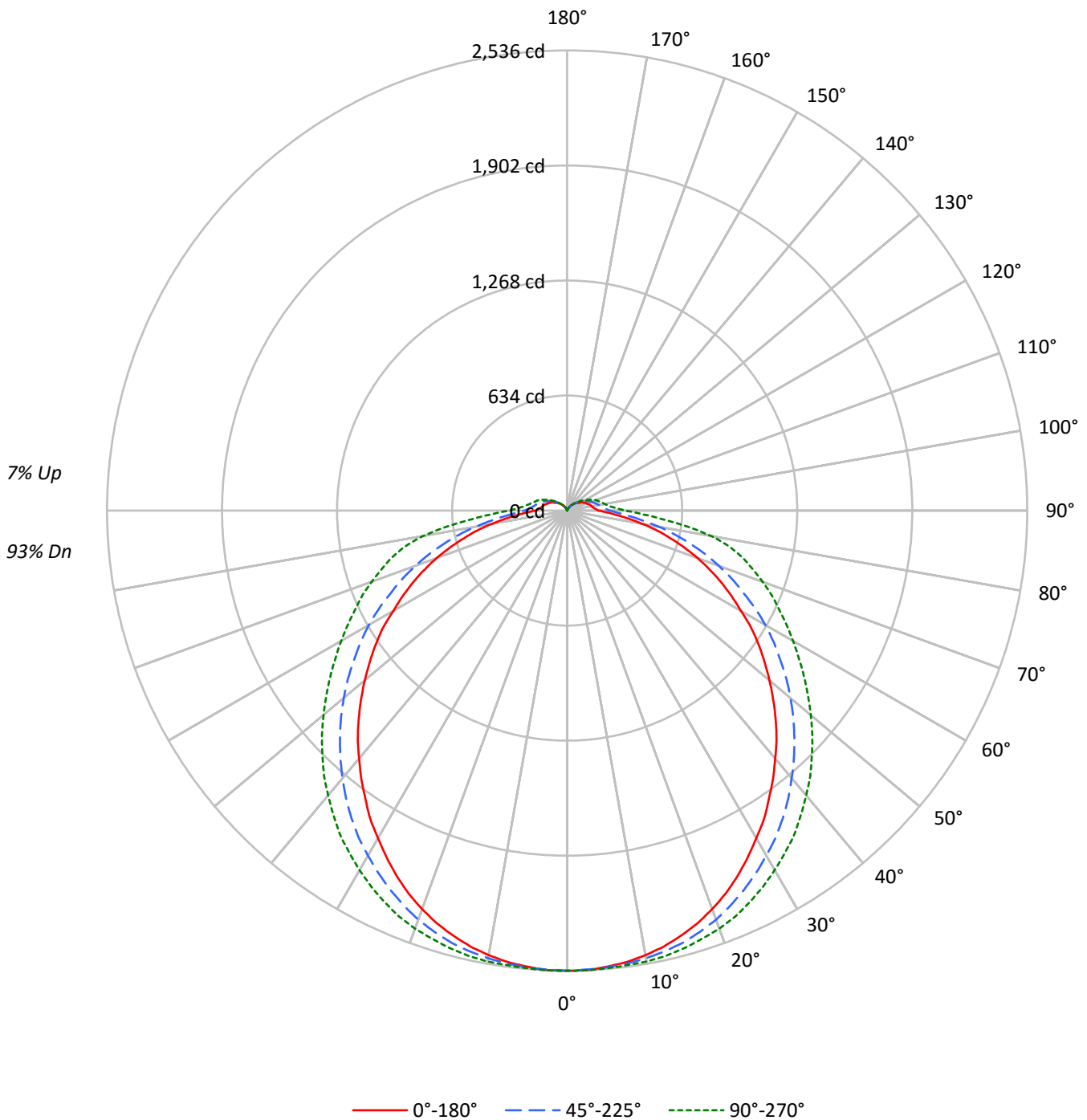
Lumens per Lamp: N/A
Luminaire Lumens: 8874.4 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.25')
CIE Type: Direct

Input Watts (W): 87.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	105	100	95	91	102	97	93	89	91	88	84	86	83	80	81	79	77	74
2	95	86	79	73	92	84	77	71	79	73	68	74	70	66	70	67	63	60
3	86	75	66	60	83	73	65	59	69	62	57	65	59	55	62	57	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	39	34	32
7	62	48	39	33	60	47	38	32	44	37	31	42	36	31	40	35	30	28
8	57	44	35	29	55	43	34	29	41	33	28	39	32	27	37	31	27	25
9	54	40	32	26	52	39	31	26	37	30	25	36	29	25	34	28	24	22
10	50	37	29	23	49	36	28	23	35	28	23	33	27	22	32	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3412	3412	3412
5°	3389	3374	3382
10°	3361	3344	3372
15°	3323	3316	3364
20°	3272	3277	3358
25°	3205	3224	3340
30°	3126	3168	3316
35°	3051	3113	3295
40°	2977	3043	3257
45°	2909	2974	3226
50°	2837	2904	3193
55°	2774	2828	3171
60°	2687	2760	3182
65°	2634	2655	3234
70°	2571	2565	3357
75°	2481	2432	3546
80°	2406	2271	3652
85°	2431	2092	3291



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.5	2.7
10°-20°	694.9	7.8
20°-30°	1061.6	12.0
30°-40°	1292.3	14.6
40°-50°	1365.9	15.4
50°-60°	1289.3	14.5
60°-70°	1084.7	12.2
70°-80°	782.0	8.8
80°-90°	412.5	4.6
90°-100°	220.8	2.5
100°-110°	167.7	1.9
110°-120°	121.6	1.4
120°-130°	76.4	0.9
130°-140°	41.3	0.5
140°-150°	18.0	0.2
150°-160°	4.8	0.1
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-30°	1997.0	22.5
0°-40°	3289.3	37.1
0°-60°	5944.5	67.0
0°-90°	8223.8	92.7
90°-120°	510.0	5.7
90°-150°	645.7	7.3
90°-180°	651.0	7.3
0°-180°	8874.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2536	2536	2536	2536	2536	
5°	2523	2523	2527	2527	2532	240
15°	2425	2434	2465	2483	2496	684
25°	2222	2248	2306	2359	2381	1023
35°	1938	1983	2071	2151	2182	1214
45°	1624	1673	1770	1868	1908	1254
55°	1288	1345	1434	1540	1593	1151
65°	938	991	1071	1204	1288	928
75°	589	637	699	836	1000	625
85°	270	305	341	425	518	253
90°	173	204	235	279	319	99
95°	150	173	199	226	243	120
105°	128	142	159	177	186	134
115°	102	111	124	133	142	102
125°	75	75	88	88	93	68
135°	53	49	53	53	58	40
145°	31	27	27	27	31	20
155°	13	13	4	9	13	6
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2536.0	2536.0	2536.0	2536.0	2536.0
2.5°	2536.0	2531.6	2531.6	2531.6	2536.0
5°	2522.7	2522.7	2527.1	2527.1	2531.6
7.5°	2509.4	2509.4	2518.3	2522.7	2527.1
10°	2487.3	2491.7	2505.0	2513.9	2522.7
12.5°	2460.8	2465.2	2487.3	2505.0	2513.9
15°	2425.3	2434.2	2465.2	2482.9	2496.2
17.5°	2385.5	2398.8	2434.2	2460.8	2474.0
20°	2336.8	2354.5	2398.8	2434.2	2451.9
22.5°	2283.7	2301.4	2354.5	2398.8	2420.9
25°	2221.8	2248.3	2305.8	2359.0	2381.1
27.5°	2155.4	2186.3	2252.7	2314.7	2336.8
30°	2084.6	2120.0	2195.2	2261.6	2288.1
32.5°	2018.2	2053.6	2137.7	2208.5	2235.0
35°	1938.5	1982.8	2071.3	2150.9	2181.9
37.5°	1863.3	1907.5	2000.5	2084.6	2115.5
40°	1783.6	1827.9	1925.2	2018.2	2049.1
42.5°	1708.4	1752.6	1850.0	1947.4	1982.8
45°	1624.3	1673.0	1770.3	1867.7	1907.5
47.5°	1540.2	1588.9	1690.7	1792.5	1832.3
50°	1456.1	1509.2	1606.6	1708.4	1752.6
52.5°	1372.0	1425.1	1522.5	1628.7	1673.0
55°	1287.9	1345.4	1434.0	1540.2	1593.3
57.5°	1203.8	1261.4	1349.9	1460.5	1513.6
60°	1106.5	1172.8	1261.4	1376.4	1438.4
62.5°	1022.4	1079.9	1168.4	1287.9	1363.1
65°	938.3	991.4	1071.0	1203.8	1287.9
67.5°	849.8	907.3	982.5	1106.5	1221.5
70°	765.7	814.3	889.6	1017.9	1146.3
72.5°	677.1	725.8	796.6	929.4	1071.0
75°	588.6	637.3	699.3	836.5	1000.2
77.5°	509.0	548.8	606.3	739.1	916.1
80°	420.5	460.3	513.4	632.9	805.5
82.5°	340.8	376.2	420.5	526.7	663.9
85°	270.0	305.4	340.8	424.9	517.8
87.5°	216.9	243.4	278.8	340.8	402.7
90°	172.6	203.6	234.6	278.8	318.7
92.5°	159.3	185.9	212.4	247.8	274.4
95°	150.5	172.6	199.2	225.7	243.4
97.5°	141.6	163.8	185.9	212.4	225.7
100°	137.2	154.9	177.0	199.2	208.0
102.5°	132.8	146.1	168.2	185.9	199.2
105°	128.3	141.6	159.3	177.0	185.9
107.5°	119.5	132.8	150.5	168.2	177.0
110°	115.1	123.9	141.6	154.9	168.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	110.6	119.5	132.8	146.1	154.9
115°	101.8	110.6	123.9	132.8	141.6
117.5°	97.4	101.8	115.1	119.5	128.3
120°	88.5	92.9	106.2	110.6	115.1
122.5°	79.7	84.1	97.4	97.4	106.2
125°	75.2	75.2	88.5	88.5	92.9
127.5°	70.8	70.8	79.7	79.7	84.1
130°	62.0	62.0	70.8	70.8	70.8
132.5°	57.5	53.1	62.0	62.0	66.4
135°	53.1	48.7	53.1	53.1	57.5
137.5°	44.3	44.3	48.7	44.3	48.7
140°	39.8	35.4	39.8	39.8	44.3
142.5°	35.4	31.0	35.4	31.0	35.4
145°	31.0	26.6	26.6	26.6	31.0
147.5°	26.6	22.1	22.1	22.1	26.6
150°	22.1	17.7	17.7	17.7	22.1
152.5°	17.7	13.3	8.9	13.3	17.7
155°	13.3	13.3	4.4	8.9	13.3
157.5°	8.9	8.9	0.0	4.4	8.9
160°	4.4	4.4	0.0	4.4	4.4
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)