

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: P385208

Luminaire Tested: **24ID-65-L840-CNC**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385208  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-72)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 2/25/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 24ID-65-L840-CNC  
Description: 2X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

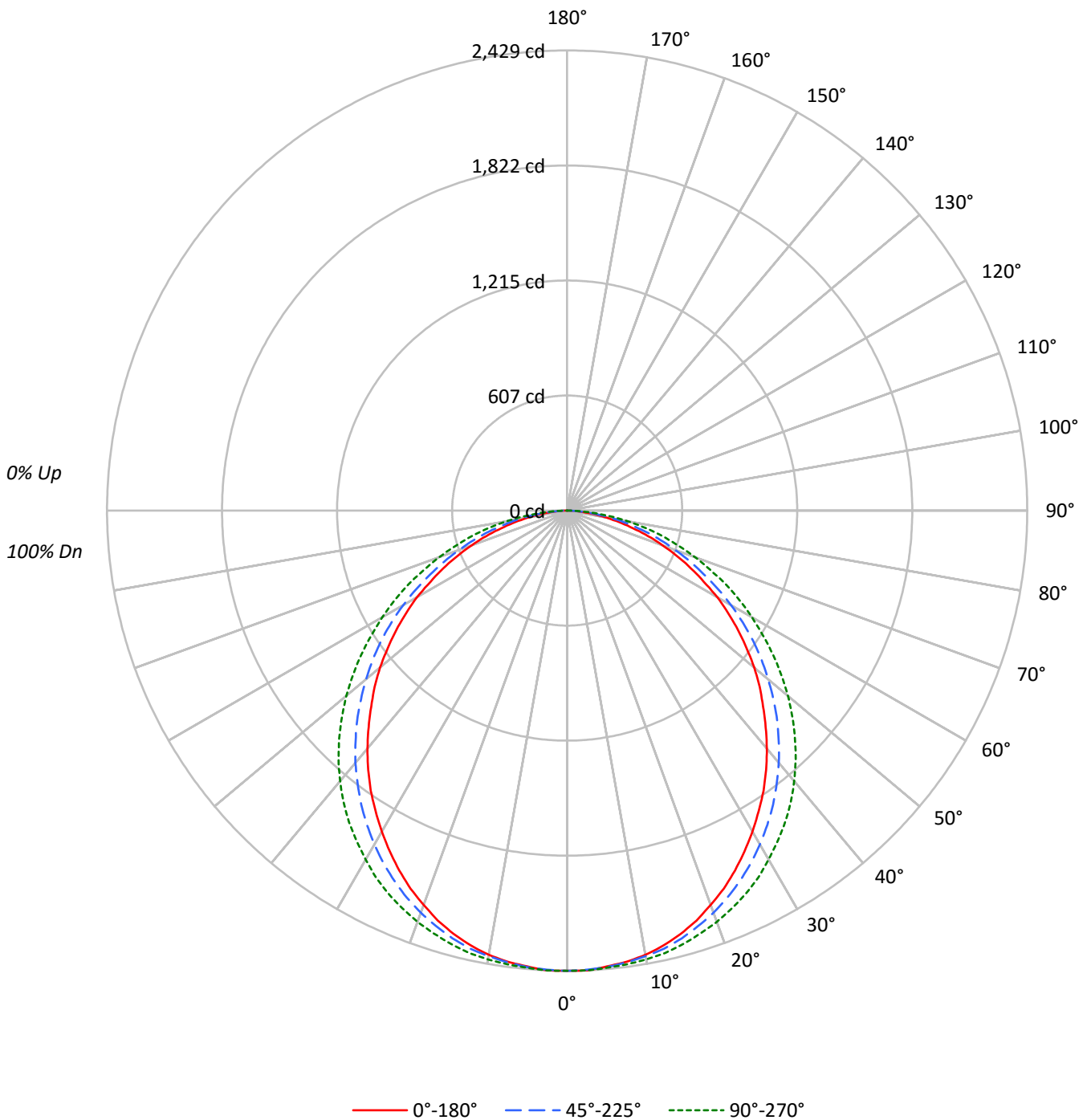
Lumens per Lamp: N/A  
Luminaire Lumens: 6744.9 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 63.6  
Input Voltage (V): NR  
Input Current (Ain): 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



TEST NUMBER: P385208  
CATALOG NUMBER: 24ID-65-L840-CNC

### Luminous Intensity Polar Plot





TEST NUMBER: P385208

CATALOG NUMBER: 24ID-65-L840-CNC

**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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	104	100	96	106	102	98	94	98	94	91		94	91	89		90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	75		82	78	74		79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63		72	67	62		70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62	57	53	50
5	76	63	54	48	74	62	54	47	60	52	47		58	51	46		56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41		52	46	41		51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36		48	41	36		46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32		44	37	32		43	37	32	30
9	57	43	35	29	55	43	35	29	42	34	29		40	34	29		39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27		37	31	26		37	31	26	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3269	3269	3269
5°	3263	3267	3272
10°	3254	3263	3287
15°	3223	3256	3299
20°	3171	3235	3308
25°	3111	3202	3313
30°	3040	3161	3304
35°	2967	3113	3297
40°	2880	3054	3275
45°	2784	2985	3237
50°	2699	2899	3184
55°	2586	2809	3113
60°	2463	2692	3031
65°	2296	2535	2946
70°	2115	2382	2824
75°	1875	2211	2706
80°	1581	1977	2504
85°	1156	1524	1996



TEST NUMBER: P385208

CATALOG NUMBER: 24ID-65-L840-CNC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.0	3.4
10°-20°	659.7	9.8
20°-30°	995.0	14.8
30°-40°	1187.9	17.6
40°-50°	1214.0	18.0
50°-60°	1076.5	16.0
60°-70°	802.5	11.9
70°-80°	458.4	6.8
80°-90°	120.9	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1884.6	27.9
0°-40°	3072.5	45.6
0°-60°	5363.0	79.5
0°-90°	6744.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6744.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2429	2429	2429	2429	2429	
5°	2416	2416	2419	2419	2422	230
15°	2314	2320	2337	2358	2368	652
25°	2096	2113	2157	2205	2232	965
35°	1807	1830	1895	1970	2007	1129
45°	1463	1494	1568	1654	1701	1130
55°	1102	1123	1198	1283	1327	985
65°	721	738	796	878	925	715
75°	361	378	425	490	521	385
85°	75	78	99	122	129	93
90°	0	0	0	0	0	



TEST NUMBER: P385208

CATALOG NUMBER: 24ID-65-L840-CNC

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2429.3	2429.3	2429.3	2429.3	2429.3
2.5°	2429.3	2425.9	2425.9	2425.9	2429.3
5°	2415.7	2415.7	2419.1	2419.1	2422.5
7.5°	2402.1	2402.1	2405.5	2408.9	2415.7
10°	2381.6	2381.6	2388.4	2398.7	2405.5
12.5°	2351.0	2354.4	2368.0	2381.6	2391.9
15°	2313.6	2320.4	2337.4	2357.8	2368.0
17.5°	2269.4	2276.2	2300.0	2327.2	2340.8
20°	2214.9	2228.5	2259.2	2293.2	2310.2
22.5°	2160.5	2174.1	2211.5	2252.4	2272.8
25°	2095.8	2112.9	2157.1	2204.7	2231.9
27.5°	2027.8	2048.2	2099.2	2153.7	2184.3
30°	1956.4	1980.2	2034.6	2095.8	2126.5
32.5°	1881.5	1905.3	1966.6	2034.6	2068.6
35°	1806.6	1830.5	1895.1	1970.0	2007.4
37.5°	1725.0	1748.8	1816.9	1898.5	1939.3
40°	1639.9	1667.2	1738.6	1820.3	1864.5
42.5°	1551.5	1582.1	1653.5	1742.0	1786.2
45°	1463.0	1493.6	1568.5	1653.5	1701.2
47.5°	1378.0	1401.8	1476.6	1565.1	1612.7
50°	1289.5	1309.9	1384.8	1473.2	1520.9
52.5°	1194.2	1221.4	1292.9	1381.4	1425.6
55°	1102.4	1122.8	1197.6	1282.7	1326.9
57.5°	1007.1	1027.5	1099.0	1184.0	1224.8
60°	915.2	935.6	1000.3	1085.3	1126.2
62.5°	813.2	833.6	898.2	986.7	1027.5
65°	721.3	738.3	796.1	877.8	925.4
67.5°	629.4	646.4	700.9	779.1	816.6
70°	537.6	551.2	605.6	677.1	717.9
72.5°	449.1	462.7	517.2	581.8	615.8
75°	360.6	377.7	425.3	489.9	520.6
77.5°	279.0	296.0	336.8	394.7	421.9
80°	204.1	217.8	255.2	299.4	323.2
82.5°	136.1	146.3	173.5	210.9	228.0
85°	74.9	78.3	98.7	122.5	129.3
87.5°	30.6	30.6	37.4	40.8	44.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)