

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: P383867

Luminaire Tested: **24ID-70-L835-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383867
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-65)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-70-L835-CFR1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

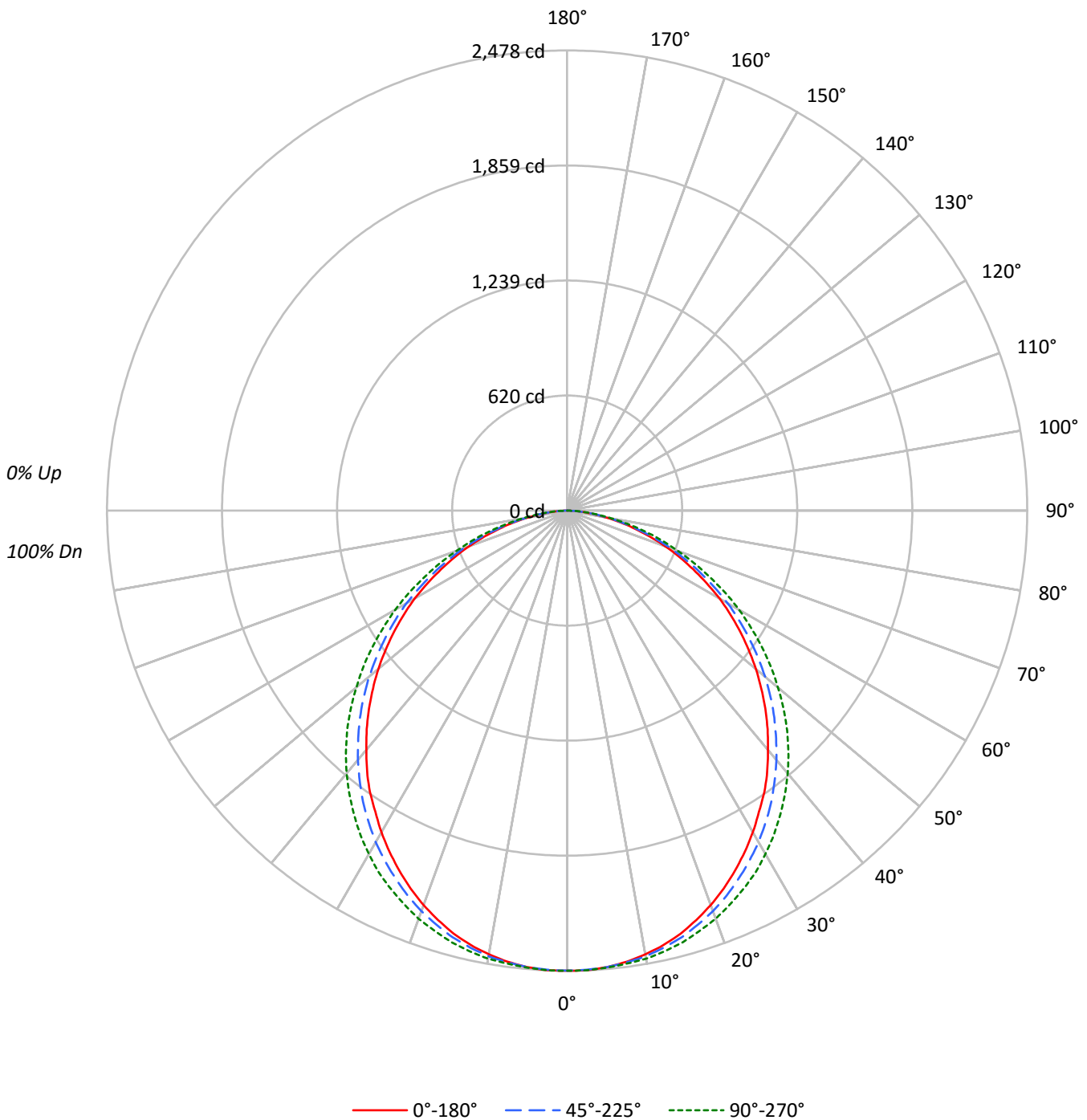
Lumens per Lamp: N/A
Luminaire Lumens: 6729.1 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 65.6
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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60					60			
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51					51			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44					44			
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39					39			
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31					31			
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28					28			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3334	3334	3334
5°	3333	3333	3337
10°	3316	3330	3348
15°	3286	3315	3352
20°	3238	3286	3349
25°	3176	3246	3337
30°	3108	3203	3318
35°	3041	3147	3286
40°	2955	3080	3246
45°	2872	3001	3188
50°	2777	2912	3103
55°	2668	2803	3001
60°	2551	2687	2878
65°	2382	2522	2694
70°	2210	2330	2490
75°	1971	2076	2253
80°	1652	1731	1888
85°	1254	1254	1411



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.5	3.5
10°-20°	671.0	10.0
20°-30°	1008.9	15.0
30°-40°	1200.2	17.8
40°-50°	1221.2	18.1
50°-60°	1074.8	16.0
60°-70°	788.4	11.7
70°-80°	427.9	6.4
80°-90°	102.1	1.5
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°	1914.4	28.4
0°-40°	3114.6	46.3
0°-60°	5410.6	80.4
0°-90°	6729.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6729.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2478	2478	2478	2478	2478	
5°	2468	2464	2468	2468	2471	234
15°	2359	2363	2380	2393	2407	665
25°	2139	2153	2187	2224	2248	985
35°	1852	1865	1916	1973	2000	1156
45°	1510	1523	1577	1645	1676	1164
55°	1137	1154	1195	1252	1280	1017
65°	748	762	792	826	846	743
75°	379	386	399	420	433	403
85°	81	81	81	88	91	98
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2477.7	2477.7	2477.7	2477.7	2477.7
2.5°	2477.7	2474.3	2474.3	2474.3	2477.7
5°	2467.6	2464.2	2467.6	2467.6	2470.9
7.5°	2450.6	2447.2	2454.0	2457.4	2460.8
10°	2426.9	2426.9	2437.1	2443.9	2450.6
12.5°	2396.5	2399.9	2410.0	2420.2	2430.3
15°	2359.2	2362.6	2379.5	2393.1	2406.6
17.5°	2311.9	2318.6	2338.9	2359.2	2372.8
20°	2261.1	2271.2	2294.9	2322.0	2338.9
22.5°	2203.5	2217.1	2244.2	2278.0	2294.9
25°	2139.2	2152.8	2186.6	2223.8	2247.5
27.5°	2071.5	2088.5	2125.7	2169.7	2196.8
30°	2000.4	2017.4	2061.4	2108.8	2135.8
32.5°	1922.6	1942.9	1990.3	2044.4	2071.5
35°	1851.5	1865.1	1915.8	1973.4	2000.4
37.5°	1770.3	1787.2	1834.6	1895.5	1926.0
40°	1682.3	1699.2	1753.4	1814.3	1848.1
42.5°	1597.6	1611.2	1665.3	1733.0	1763.5
45°	1509.6	1523.2	1577.3	1645.0	1675.5
47.5°	1418.3	1435.2	1485.9	1550.3	1580.7
50°	1326.9	1340.4	1391.2	1452.1	1482.6
52.5°	1232.1	1245.6	1293.0	1353.9	1384.4
55°	1137.3	1154.2	1194.9	1252.4	1279.5
57.5°	1042.5	1059.5	1096.7	1150.8	1174.5
60°	947.8	961.3	998.5	1045.9	1069.6
62.5°	846.2	856.4	893.6	941.0	961.3
65°	748.1	761.6	792.1	825.9	846.2
67.5°	656.7	663.4	690.5	727.7	741.3
70°	561.9	568.7	592.3	622.8	633.0
72.5°	467.1	477.3	494.2	521.3	534.8
75°	379.1	385.9	399.4	419.7	433.3
77.5°	294.5	297.9	308.0	324.9	335.1
80°	213.2	216.6	223.4	236.9	243.7
82.5°	142.2	145.5	148.9	155.7	162.5
85°	81.2	81.2	81.2	88.0	91.4
87.5°	30.5	27.1	27.1	27.1	27.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)