

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: P385223

Luminaire Tested: **24ID-85-L835-CNC**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385223  
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-85-L835-CNC  
Description: 2X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

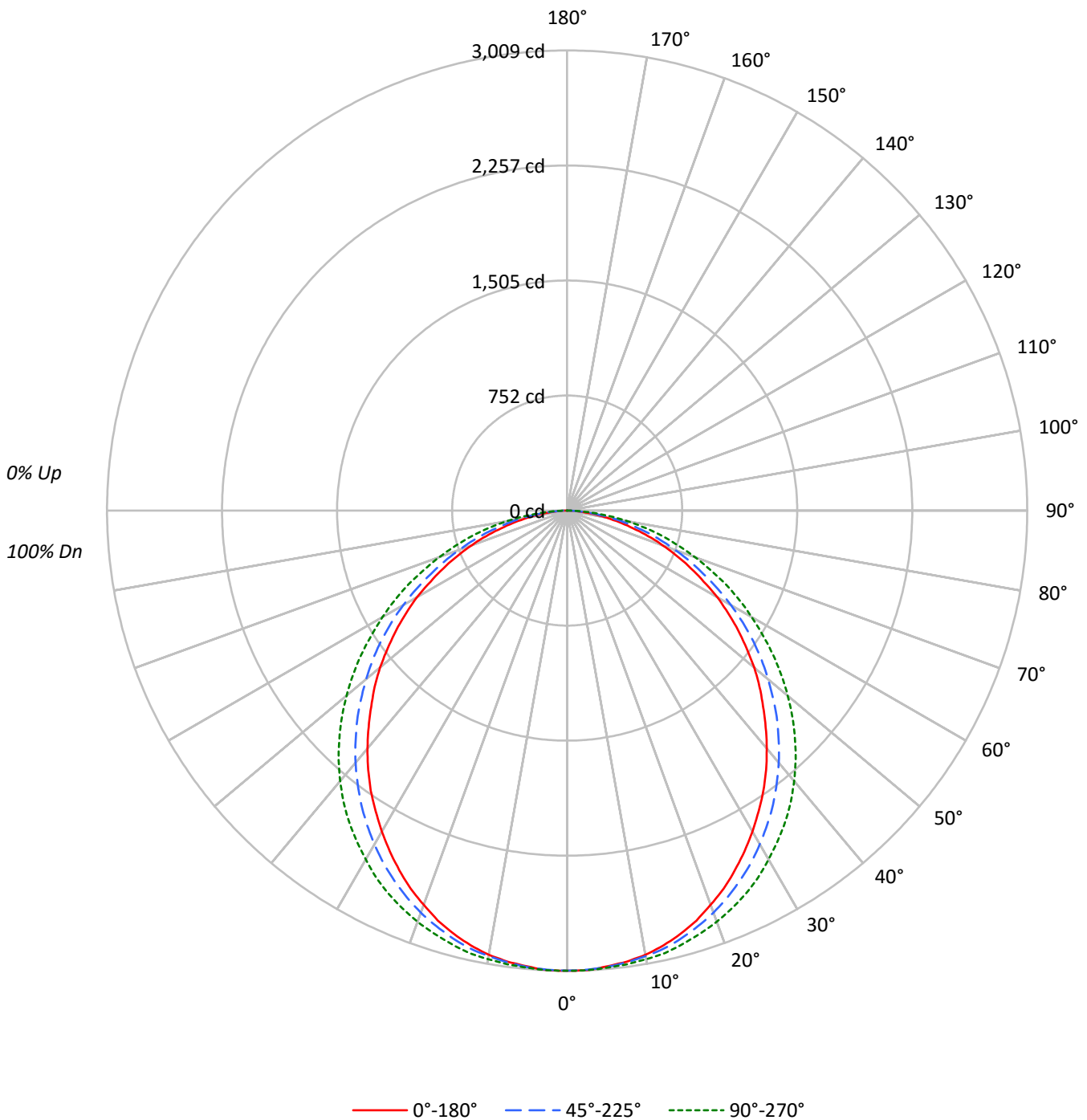
Lumens per Lamp: N/A  
Luminaire Lumens: 8354.0 lumens  
Efficiency: N/A  
Efficacy: 101.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 82  
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



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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	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°	4048	4048	4048
5°	4041	4047	4052
10°	4030	4042	4070
15°	3992	4033	4086
20°	3928	4006	4097
25°	3854	3966	4104
30°	3765	3915	4092
35°	3676	3855	4084
40°	3568	3782	4056
45°	3448	3697	4009
50°	3343	3590	3943
55°	3203	3480	3855
60°	3050	3334	3753
65°	2844	3139	3649
70°	2619	2951	3498
75°	2322	2739	3352
80°	1959	2449	3102
85°	1431	1886	2472



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	284.8	3.4
10°-20°	817.1	9.8
20°-30°	1232.3	14.8
30°-40°	1471.2	17.6
40°-50°	1503.7	18.0
50°-60°	1333.3	16.0
60°-70°	994.0	11.9
70°-80°	567.8	6.8
80°-90°	149.8	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°	2334.3	27.9
0°-40°	3805.5	45.6
0°-60°	6642.5	79.5
0°-90°	8354.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8354.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3009	3009	3009	3009	3009	
5°	2992	2992	2996	2996	3000	284
15°	2866	2874	2895	2920	2933	807
25°	2596	2617	2672	2731	2764	1195
35°	2238	2267	2347	2440	2486	1398
45°	1812	1850	1943	2048	2107	1400
55°	1365	1391	1483	1589	1644	1220
65°	893	914	986	1087	1146	885
75°	447	468	527	607	645	477
85°	93	97	122	152	160	116
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3008.8	3008.8	3008.8	3008.8	3008.8
2.5°	3008.8	3004.6	3004.6	3004.6	3008.8
5°	2992.0	2992.0	2996.2	2996.2	3000.4
7.5°	2975.1	2975.1	2979.3	2983.5	2992.0
10°	2949.8	2949.8	2958.3	2970.9	2979.3
12.5°	2911.9	2916.1	2933.0	2949.8	2962.5
15°	2865.5	2874.0	2895.0	2920.3	2933.0
17.5°	2810.8	2819.2	2848.7	2882.4	2899.3
20°	2743.3	2760.2	2798.1	2840.3	2861.3
22.5°	2675.9	2692.8	2739.1	2789.7	2815.0
25°	2595.8	2616.9	2671.7	2730.7	2764.4
27.5°	2511.6	2536.8	2600.1	2667.5	2705.4
30°	2423.1	2452.6	2520.0	2595.8	2633.8
32.5°	2330.4	2359.9	2435.7	2520.0	2562.1
35°	2237.7	2267.1	2347.2	2439.9	2486.3
37.5°	2136.5	2166.0	2250.3	2351.4	2402.0
40°	2031.2	2064.9	2153.4	2254.5	2309.3
42.5°	1921.6	1959.5	2048.0	2157.6	2212.4
45°	1812.0	1850.0	1942.7	2048.0	2107.0
47.5°	1706.7	1736.2	1828.9	1938.5	1997.5
50°	1597.1	1622.4	1715.1	1824.7	1883.7
52.5°	1479.1	1512.8	1601.3	1710.9	1765.7
55°	1365.3	1390.6	1483.3	1588.7	1643.5
57.5°	1247.4	1272.6	1361.1	1466.5	1517.1
60°	1133.6	1158.9	1238.9	1344.3	1394.8
62.5°	1007.2	1032.4	1112.5	1222.1	1272.6
65°	893.4	914.4	986.1	1087.2	1146.2
67.5°	779.6	800.7	868.1	965.0	1011.4
70°	665.8	682.7	750.1	838.6	889.2
72.5°	556.3	573.1	640.5	720.6	762.7
75°	446.7	467.8	526.8	606.8	644.7
77.5°	345.6	366.6	417.2	488.8	522.5
80°	252.8	269.7	316.1	370.8	400.3
82.5°	168.6	181.2	214.9	261.3	282.3
85°	92.7	96.9	122.2	151.7	160.1
87.5°	37.9	37.9	46.4	50.6	54.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)