

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: P385087

Luminaire Tested: **14ID-50-L835-CNC**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385087  
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: 14ID-50-L835-CNC  
Description: 1X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

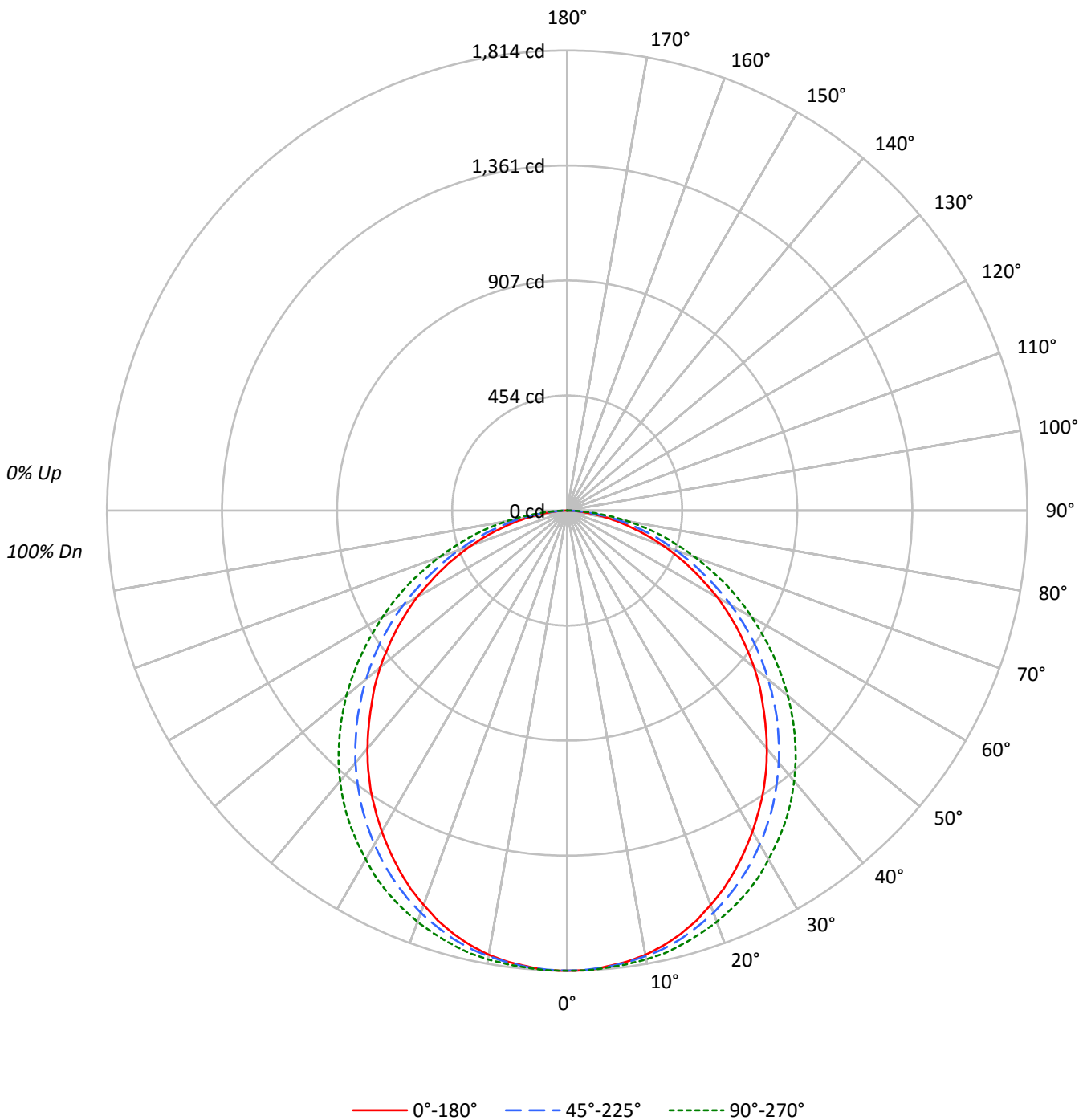
Lumens per Lamp: N/A  
Luminaire Lumens: 5036.7 lumens  
Efficiency: N/A  
Efficacy: 116.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 43.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	4881	4881	4881
5°	4873	4880	4887
10°	4860	4874	4908
15°	4813	4863	4926
20°	4737	4831	4940
25°	4647	4783	4949
30°	4539	4721	4934
35°	4432	4649	4924
40°	4302	4561	4891
45°	4158	4458	4834
50°	4031	4329	4755
55°	3862	4196	4649
60°	3678	4020	4526
65°	3429	3785	4401
70°	3158	3558	4218
75°	2800	3302	4041
80°	2362	2954	3741
85°	1726	2276	2979



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.7	3.4
10°-20°	492.6	9.8
20°-30°	743.0	14.8
30°-40°	887.0	17.6
40°-50°	906.6	18.0
50°-60°	803.9	16.0
60°-70°	599.3	11.9
70°-80°	342.3	6.8
80°-90°	90.3	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°	1407.3	27.9
0°-40°	2294.4	45.6
0°-60°	4004.8	79.5
0°-90°	5036.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5036.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1814	1814	1814	1814	1814	
5°	1804	1804	1806	1806	1809	171
15°	1728	1733	1745	1761	1768	487
25°	1565	1578	1611	1646	1667	721
35°	1349	1367	1415	1471	1499	843
45°	1092	1115	1171	1235	1270	844
55°	823	838	894	958	991	736
65°	539	551	594	656	691	534
75°	269	282	318	366	389	287
85°	56	58	74	92	96	70
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1814.0	1814.0	1814.0	1814.0	1814.0
2.5°	1814.0	1811.5	1811.5	1811.5	1814.0
5°	1803.9	1803.9	1806.4	1806.4	1809.0
7.5°	1793.7	1793.7	1796.3	1798.8	1803.9
10°	1778.5	1778.5	1783.6	1791.2	1796.3
12.5°	1755.6	1758.1	1768.3	1778.5	1786.1
15°	1727.7	1732.7	1745.4	1760.7	1768.3
17.5°	1694.6	1699.7	1717.5	1737.8	1748.0
20°	1654.0	1664.1	1687.0	1712.4	1725.1
22.5°	1613.3	1623.5	1651.4	1681.9	1697.2
25°	1565.1	1577.8	1610.8	1646.4	1666.7
27.5°	1514.2	1529.5	1567.6	1608.2	1631.1
30°	1460.9	1478.7	1519.3	1565.1	1587.9
32.5°	1405.0	1422.8	1468.5	1519.3	1544.7
35°	1349.1	1366.9	1415.2	1471.1	1499.0
37.5°	1288.1	1305.9	1356.7	1417.7	1448.2
40°	1224.6	1244.9	1298.3	1359.3	1392.3
42.5°	1158.5	1181.4	1234.8	1300.8	1333.9
45°	1092.5	1115.4	1171.3	1234.8	1270.3
47.5°	1029.0	1046.8	1102.7	1168.7	1204.3
50°	962.9	978.2	1034.1	1100.1	1135.7
52.5°	891.8	912.1	965.5	1031.5	1064.5
55°	823.2	838.4	894.3	957.8	990.9
57.5°	752.0	767.3	820.6	884.2	914.6
60°	683.4	698.7	747.0	810.5	841.0
62.5°	607.2	622.5	670.7	736.8	767.3
65°	538.6	551.3	594.5	655.5	691.1
67.5°	470.0	482.7	523.4	581.8	609.8
70°	401.4	411.6	452.2	505.6	536.1
72.5°	335.4	345.5	386.2	434.5	459.9
75°	269.3	282.0	317.6	365.9	388.7
77.5°	208.3	221.0	251.5	294.7	315.0
80°	152.4	162.6	190.6	223.6	241.4
82.5°	101.6	109.2	129.6	157.5	170.2
85°	55.9	58.4	73.7	91.5	96.5
87.5°	22.9	22.9	27.9	30.5	33.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)