

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: P385140

Luminaire Tested: **22ID-45-L840-CNC**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385140  
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: 22ID-45-L840-CNC  
Description: 2X2 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

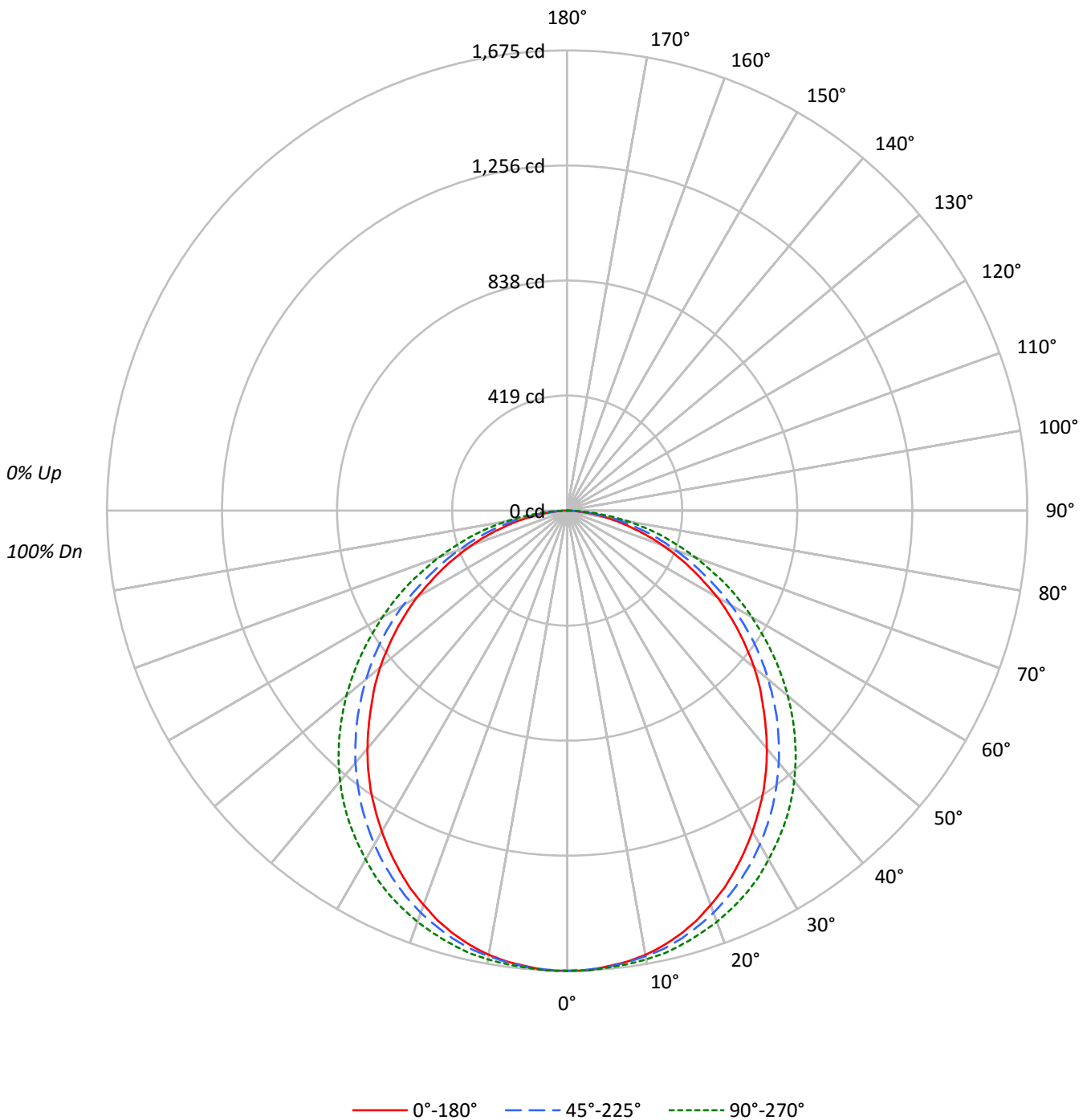
Lumens per Lamp: N/A  
Luminaire Lumens: 4651.1 lumens  
Efficiency: N/A  
Efficacy: 124.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 37.5  
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°	4508	4508	4508
5°	4500	4506	4512
10°	4488	4500	4532
15°	4445	4490	4549
20°	4374	4461	4562
25°	4291	4417	4570
30°	4192	4360	4557
35°	4093	4293	4547
40°	3973	4212	4516
45°	3839	4116	4464
50°	3723	3998	4390
55°	3567	3875	4293
60°	3397	3712	4180
65°	3167	3496	4064
70°	2917	3286	3895
75°	2586	3049	3733
80°	2182	2727	3454
85°	1593	2100	2754



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.6	3.4
10°-20°	454.9	9.8
20°-30°	686.1	14.8
30°-40°	819.1	17.6
40°-50°	837.2	18.0
50°-60°	742.3	16.0
60°-70°	553.4	11.9
70°-80°	316.1	6.8
80°-90°	83.4	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°	1299.6	27.9
0°-40°	2118.7	45.6
0°-60°	3698.2	79.5
0°-90°	4651.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4651.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1675	1675	1675	1675	1675	
5°	1666	1666	1668	1668	1670	158
15°	1595	1600	1612	1626	1633	450
25°	1445	1457	1488	1520	1539	665
35°	1246	1262	1307	1358	1384	778
45°	1009	1030	1082	1140	1173	779
55°	760	774	826	884	915	679
65°	497	509	549	605	638	493
75°	249	260	293	338	359	265
85°	52	54	68	84	89	64
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1675.2	1675.2	1675.2	1675.2	1675.2
2.5°	1675.2	1672.8	1672.8	1672.8	1675.2
5°	1665.8	1665.8	1668.1	1668.1	1670.5
7.5°	1656.4	1656.4	1658.7	1661.1	1665.8
10°	1642.3	1642.3	1647.0	1654.0	1658.7
12.5°	1621.2	1623.5	1632.9	1642.3	1649.4
15°	1595.4	1600.1	1611.8	1625.9	1632.9
17.5°	1564.9	1569.6	1586.0	1604.8	1614.2
20°	1527.4	1536.7	1557.9	1581.3	1593.0
22.5°	1489.8	1499.2	1525.0	1553.2	1567.2
25°	1445.2	1457.0	1487.5	1520.3	1539.1
27.5°	1398.3	1412.4	1447.6	1485.1	1506.2
30°	1349.0	1365.5	1403.0	1445.2	1466.4
32.5°	1297.4	1313.9	1356.1	1403.0	1426.5
35°	1245.8	1262.2	1306.8	1358.4	1384.2
37.5°	1189.5	1205.9	1252.9	1309.2	1337.3
40°	1130.9	1149.6	1198.9	1255.2	1285.7
42.5°	1069.9	1091.0	1140.2	1201.2	1231.7
45°	1008.9	1030.0	1081.6	1140.2	1173.1
47.5°	950.2	966.6	1018.2	1079.2	1112.1
50°	889.2	903.3	954.9	1015.9	1048.7
52.5°	823.5	842.3	891.5	952.5	983.0
55°	760.2	774.2	825.9	884.5	915.0
57.5°	694.5	708.5	757.8	816.5	844.6
60°	631.1	645.2	689.8	748.4	776.6
62.5°	560.7	574.8	619.4	680.4	708.5
65°	497.4	509.1	549.0	605.3	638.2
67.5°	434.0	445.8	483.3	537.3	563.1
70°	370.7	380.1	417.6	466.9	495.0
72.5°	309.7	319.1	356.6	401.2	424.7
75°	248.7	260.4	293.3	337.8	359.0
77.5°	192.4	204.1	232.3	272.2	290.9
80°	140.8	150.2	176.0	206.5	222.9
82.5°	93.8	100.9	119.7	145.5	157.2
85°	51.6	54.0	68.0	84.5	89.2
87.5°	21.1	21.1	25.8	28.2	30.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)