

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: P385188

Luminaire Tested: **24ID-40-L840-CNC**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385188  
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-40-L840-CNC  
Description: 2X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

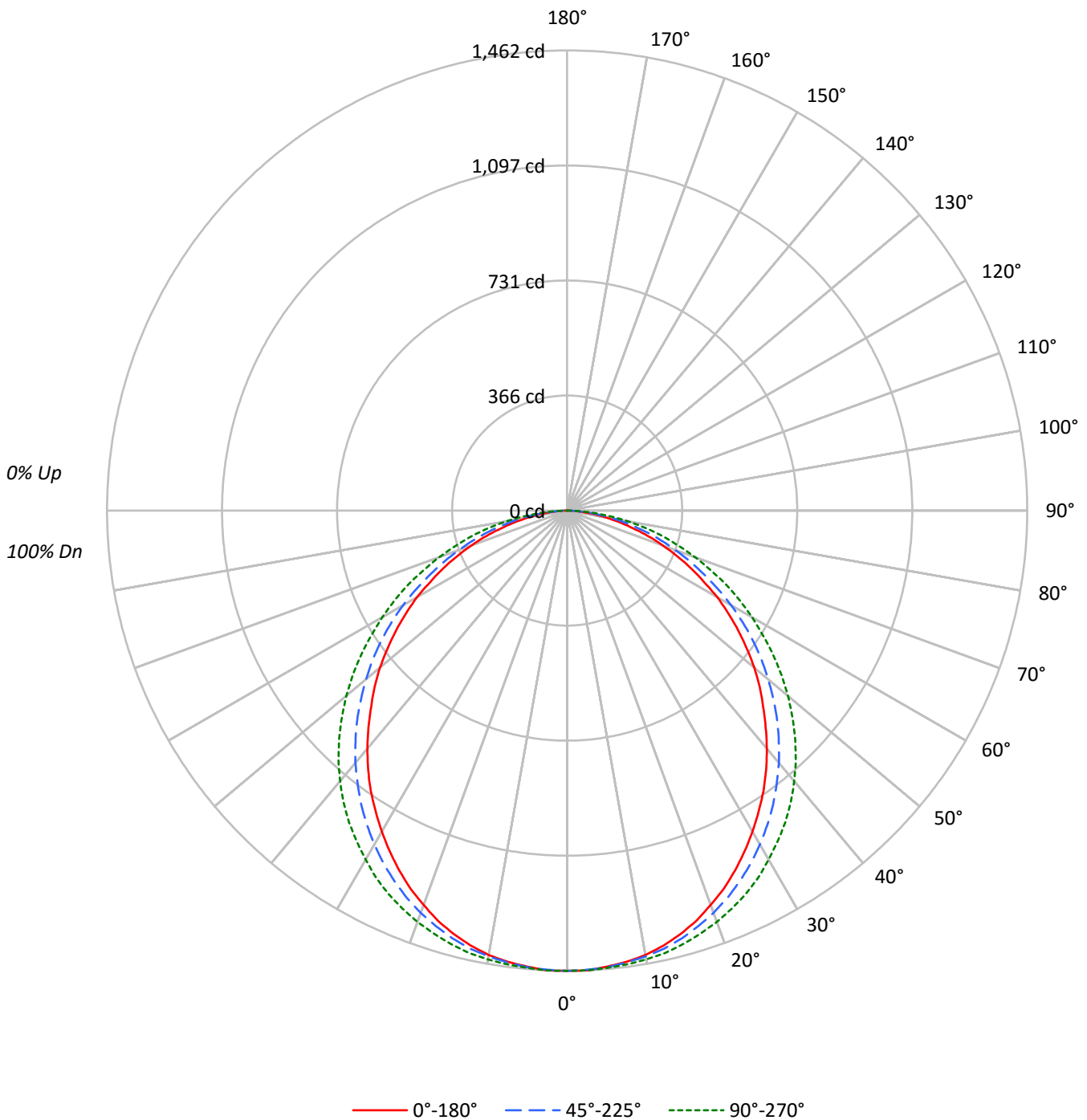
Lumens per Lamp: N/A  
Luminaire Lumens: 4060.3 lumens  
Efficiency: N/A  
Efficacy: 115.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 35.2  
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: P385188  
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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°	1968	1968	1968
5°	1964	1967	1970
10°	1959	1964	1978
15°	1940	1960	1986
20°	1909	1947	1991
25°	1873	1928	1995
30°	1830	1903	1989
35°	1786	1874	1985
40°	1734	1838	1971
45°	1676	1797	1949
50°	1625	1745	1916
55°	1557	1691	1874
60°	1483	1621	1824
65°	1382	1526	1774
70°	1273	1434	1700
75°	1129	1331	1629
80°	952	1190	1508
85°	696	917	1201



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.4	3.4
10°-20°	397.1	9.8
20°-30°	599.0	14.8
30°-40°	715.1	17.6
40°-50°	730.8	18.0
50°-60°	648.0	16.0
60°-70°	483.1	11.9
70°-80°	276.0	6.8
80°-90°	72.8	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°	1134.5	27.9
0°-40°	1849.6	45.6
0°-60°	3228.4	79.5
0°-90°	4060.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4060.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1462	1462	1462	1462	1462	
5°	1454	1454	1456	1456	1458	138
15°	1393	1397	1407	1419	1426	392
25°	1262	1272	1298	1327	1344	581
35°	1088	1102	1141	1186	1208	679
45°	881	899	944	995	1024	680
55°	664	676	721	772	799	593
65°	434	444	479	528	557	430
75°	217	227	256	295	313	232
85°	45	47	59	74	78	56
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1462.4	1462.4	1462.4	1462.4	1462.4
2.5°	1462.4	1460.3	1460.3	1460.3	1462.4
5°	1454.2	1454.2	1456.2	1456.2	1458.3
7.5°	1446.0	1446.0	1448.0	1450.1	1454.2
10°	1433.7	1433.7	1437.8	1443.9	1448.0
12.5°	1415.3	1417.3	1425.5	1433.7	1439.8
15°	1392.7	1396.8	1407.1	1419.4	1425.5
17.5°	1366.1	1370.2	1384.5	1400.9	1409.1
20°	1333.3	1341.5	1360.0	1380.5	1390.7
22.5°	1300.6	1308.8	1331.3	1355.9	1368.2
25°	1261.7	1271.9	1298.5	1327.2	1343.6
27.5°	1220.7	1233.0	1263.7	1296.5	1314.9
30°	1177.7	1192.0	1224.8	1261.7	1280.1
32.5°	1132.6	1147.0	1183.8	1224.8	1245.3
35°	1087.6	1101.9	1140.8	1185.9	1208.4
37.5°	1038.4	1052.7	1093.7	1142.9	1167.4
40°	987.2	1003.6	1046.6	1095.8	1122.4
42.5°	934.0	952.4	995.4	1048.7	1075.3
45°	880.7	899.1	944.2	995.4	1024.1
47.5°	829.5	843.8	888.9	942.1	970.8
50°	776.2	788.5	833.6	886.8	915.5
52.5°	718.9	735.3	778.3	831.5	858.2
55°	663.6	675.9	720.9	772.2	798.8
57.5°	606.3	618.5	661.6	712.8	737.3
60°	551.0	563.2	602.2	653.4	677.9
62.5°	489.5	501.8	540.7	594.0	618.5
65°	434.2	444.4	479.3	528.4	557.1
67.5°	378.9	389.1	421.9	469.0	491.6
70°	323.6	331.8	364.6	407.6	432.2
72.5°	270.4	278.5	311.3	350.2	370.7
75°	217.1	227.3	256.0	294.9	313.4
77.5°	167.9	178.2	202.8	237.6	254.0
80°	122.9	131.1	153.6	180.2	194.6
82.5°	81.9	88.1	104.5	127.0	137.2
85°	45.1	47.1	59.4	73.7	77.8
87.5°	18.4	18.4	22.5	24.6	26.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)