

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: P385184

Luminaire Tested: **24ID-35-L840-CNC**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385184  
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-35-L840-CNC  
Description: 2X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

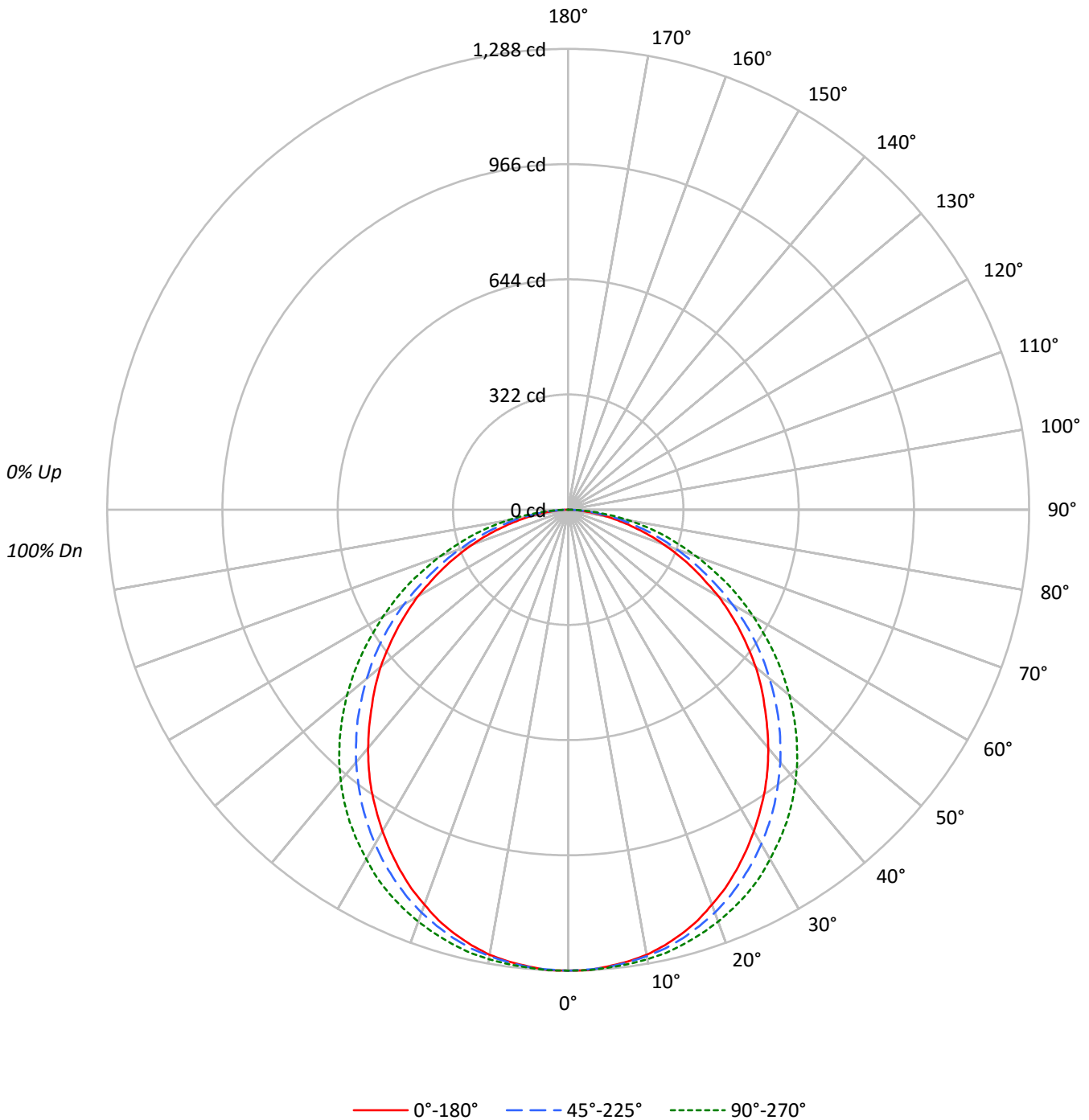
Lumens per Lamp: N/A  
Luminaire Lumens: 3577.2 lumens  
Efficiency: N/A  
Efficacy: 118.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 30.2  
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°	1734	1734	1734
5°	1730	1733	1735
10°	1726	1731	1743
15°	1709	1727	1749
20°	1682	1716	1754
25°	1650	1698	1757
30°	1612	1677	1752
35°	1574	1651	1749
40°	1528	1620	1737
45°	1476	1583	1717
50°	1432	1537	1688
55°	1371	1490	1651
60°	1306	1428	1607
65°	1218	1344	1563
70°	1122	1264	1498
75°	994	1173	1435
80°	839	1048	1328
85°	613	807	1059



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.0	3.4
10°-20°	349.9	9.8
20°-30°	527.7	14.8
30°-40°	630.0	17.6
40°-50°	643.9	18.0
50°-60°	570.9	16.0
60°-70°	425.6	11.9
70°-80°	243.1	6.8
80°-90°	64.1	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°	999.5	27.9
0°-40°	1629.5	45.6
0°-60°	2844.3	79.5
0°-90°	3577.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3577.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1288	1288	1288	1288	1288	
5°	1281	1281	1283	1283	1285	122
15°	1227	1231	1240	1250	1256	346
25°	1112	1121	1144	1169	1184	512
35°	958	971	1005	1045	1065	599
45°	776	792	832	877	902	599
55°	585	596	635	680	704	522
65°	382	392	422	466	491	379
75°	191	200	226	260	276	204
85°	40	42	52	65	69	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1288.4	1288.4	1288.4	1288.4	1288.4
2.5°	1288.4	1286.6	1286.6	1286.6	1288.4
5°	1281.2	1281.2	1283.0	1283.0	1284.8
7.5°	1273.9	1273.9	1275.8	1277.6	1281.2
10°	1263.1	1263.1	1266.7	1272.1	1275.8
12.5°	1246.9	1248.7	1255.9	1263.1	1268.5
15°	1227.0	1230.6	1239.7	1250.5	1255.9
17.5°	1203.6	1207.2	1219.8	1234.2	1241.5
20°	1174.7	1181.9	1198.2	1216.2	1225.2
22.5°	1145.8	1153.0	1172.9	1194.6	1205.4
25°	1111.5	1120.6	1144.0	1169.3	1183.7
27.5°	1075.5	1086.3	1113.4	1142.2	1158.5
30°	1037.6	1050.2	1079.1	1111.5	1127.8
32.5°	997.9	1010.5	1043.0	1079.1	1097.1
35°	958.2	970.8	1005.1	1044.8	1064.6
37.5°	914.9	927.5	963.6	1006.9	1028.5
40°	869.7	884.2	922.1	965.4	988.8
42.5°	822.8	839.1	877.0	923.9	947.3
45°	775.9	792.2	831.9	877.0	902.2
47.5°	730.8	743.4	783.1	830.1	855.3
50°	683.9	694.7	734.4	781.3	806.6
52.5°	633.4	647.8	685.7	732.6	756.1
55°	584.6	595.5	635.2	680.3	703.7
57.5°	534.1	544.9	582.8	628.0	649.6
60°	485.4	496.2	530.5	575.6	597.3
62.5°	431.3	442.1	476.4	523.3	544.9
65°	382.5	391.6	422.2	465.5	490.8
67.5°	333.8	342.8	371.7	413.2	433.1
70°	285.1	292.3	321.2	359.1	380.7
72.5°	238.2	245.4	274.3	308.6	326.6
75°	191.3	200.3	225.6	259.8	276.1
77.5°	148.0	157.0	178.6	209.3	223.8
80°	108.3	115.5	135.3	158.8	171.4
82.5°	72.2	77.6	92.0	111.9	120.9
85°	39.7	41.5	52.3	65.0	68.6
87.5°	16.2	16.2	19.8	21.7	23.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)