

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: P385185

Luminaire Tested: **24ID-35-L850-CNC**

Issue Date: 2/25/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385185  
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-L850-CNC  
Description: 2X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -  
Ballast/Driver: -

**Summary**

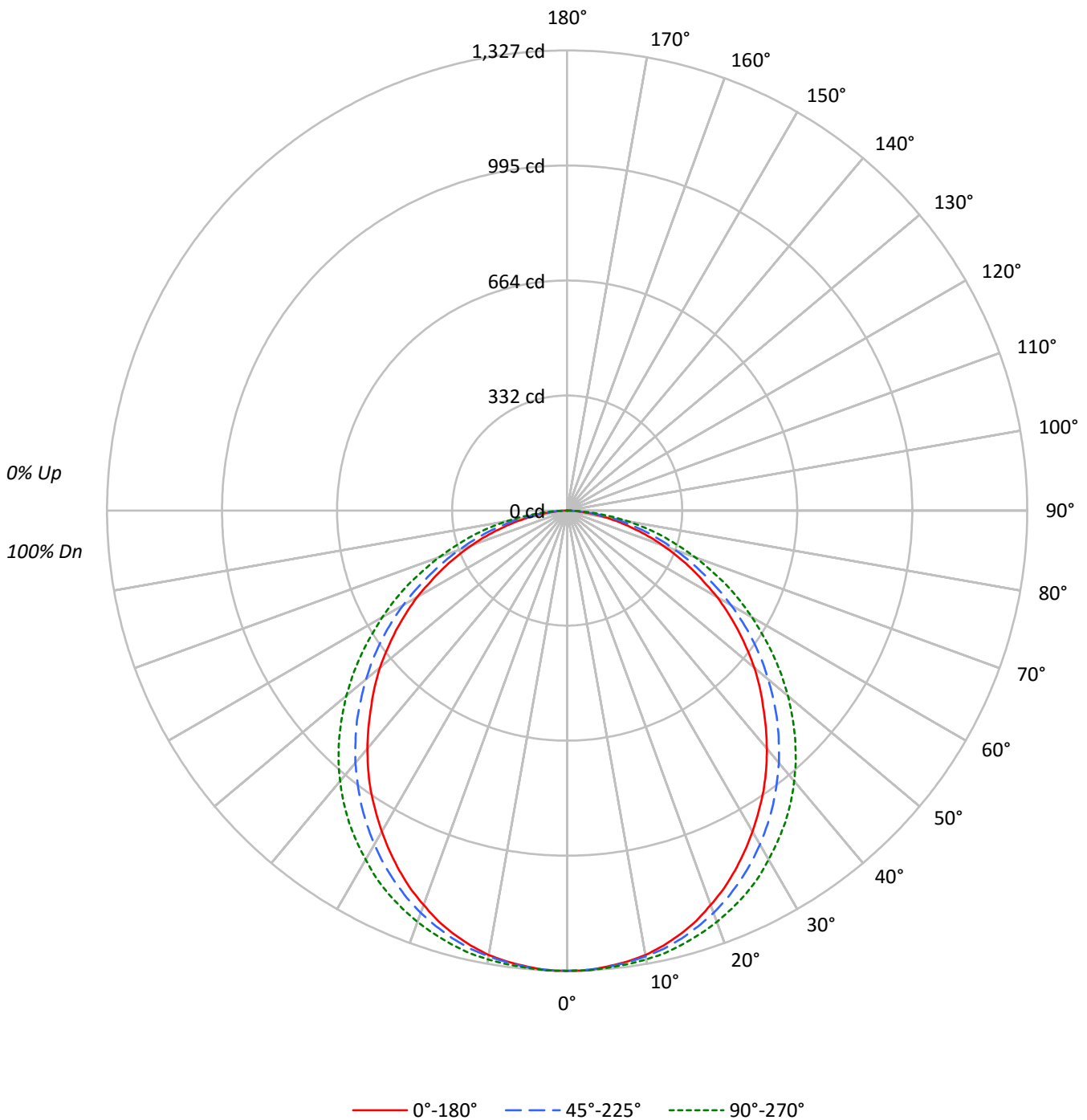
Lumens per Lamp: N/A  
Luminaire Lumens: 3685.6 lumens  
Efficiency: N/A  
Efficacy: 122.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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°	1786	1786	1786
5°	1783	1785	1788
10°	1778	1783	1796
15°	1761	1779	1802
20°	1733	1768	1808
25°	1700	1750	1811
30°	1661	1727	1805
35°	1622	1701	1802
40°	1574	1669	1789
45°	1521	1631	1769
50°	1475	1584	1739
55°	1413	1535	1701
60°	1346	1471	1656
65°	1255	1385	1610
70°	1155	1302	1543
75°	1025	1208	1478
80°	864	1080	1368
85°	631	832	1090



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.7	3.4
10°-20°	360.5	9.8
20°-30°	543.7	14.8
30°-40°	649.1	17.6
40°-50°	663.4	18.0
50°-60°	588.2	16.0
60°-70°	438.5	11.9
70°-80°	250.5	6.8
80°-90°	66.1	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°	1029.8	27.9
0°-40°	1678.9	45.6
0°-60°	2930.5	79.5
0°-90°	3685.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3685.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1327	1327	1327	1327	1327	
5°	1320	1320	1322	1322	1324	125
15°	1264	1268	1277	1288	1294	356
25°	1145	1154	1179	1205	1220	527
35°	987	1000	1036	1076	1097	617
45°	799	816	857	904	930	618
55°	602	614	654	701	725	538
65°	394	403	435	480	506	391
75°	197	206	232	268	284	210
85°	41	43	54	67	71	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1327.4	1327.4	1327.4	1327.4	1327.4
2.5°	1327.4	1325.6	1325.6	1325.6	1327.4
5°	1320.0	1320.0	1321.8	1321.8	1323.7
7.5°	1312.6	1312.6	1314.4	1316.3	1320.0
10°	1301.4	1301.4	1305.1	1310.7	1314.4
12.5°	1284.7	1286.5	1294.0	1301.4	1307.0
15°	1264.2	1267.9	1277.2	1288.4	1294.0
17.5°	1240.0	1243.8	1256.8	1271.7	1279.1
20°	1210.3	1217.7	1234.5	1253.1	1262.4
22.5°	1180.6	1188.0	1208.4	1230.7	1241.9
25°	1145.2	1154.5	1178.7	1204.7	1219.6
27.5°	1108.0	1119.2	1147.1	1176.8	1193.6
30°	1069.0	1082.0	1111.8	1145.2	1162.0
32.5°	1028.1	1041.1	1074.6	1111.8	1130.4
35°	987.2	1000.2	1035.5	1076.4	1096.9
37.5°	942.6	955.6	992.8	1037.4	1059.7
40°	896.1	911.0	950.0	994.6	1018.8
42.5°	847.8	864.5	903.5	951.9	976.0
45°	799.4	816.2	857.1	903.5	929.6
47.5°	753.0	766.0	806.9	855.2	881.2
50°	704.6	715.8	756.7	805.0	831.0
52.5°	652.6	667.4	706.5	754.8	779.0
55°	602.4	613.5	654.4	700.9	725.1
57.5°	550.3	561.5	600.5	647.0	669.3
60°	500.1	511.3	546.6	593.1	615.4
62.5°	444.3	455.5	490.8	539.1	561.5
65°	394.1	403.4	435.0	479.7	505.7
67.5°	343.9	353.2	383.0	425.7	446.2
70°	293.7	301.2	330.9	370.0	392.3
72.5°	245.4	252.8	282.6	317.9	336.5
75°	197.1	206.4	232.4	267.7	284.4
77.5°	152.4	161.7	184.1	215.7	230.5
80°	111.5	119.0	139.4	163.6	176.6
82.5°	74.4	79.9	94.8	115.3	124.6
85°	40.9	42.8	53.9	66.9	70.6
87.5°	16.7	16.7	20.5	22.3	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)