

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: P385353

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

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385353
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-73)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-35-L850-CNV
Description: 2X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -
Ballast/Driver: -

Summary

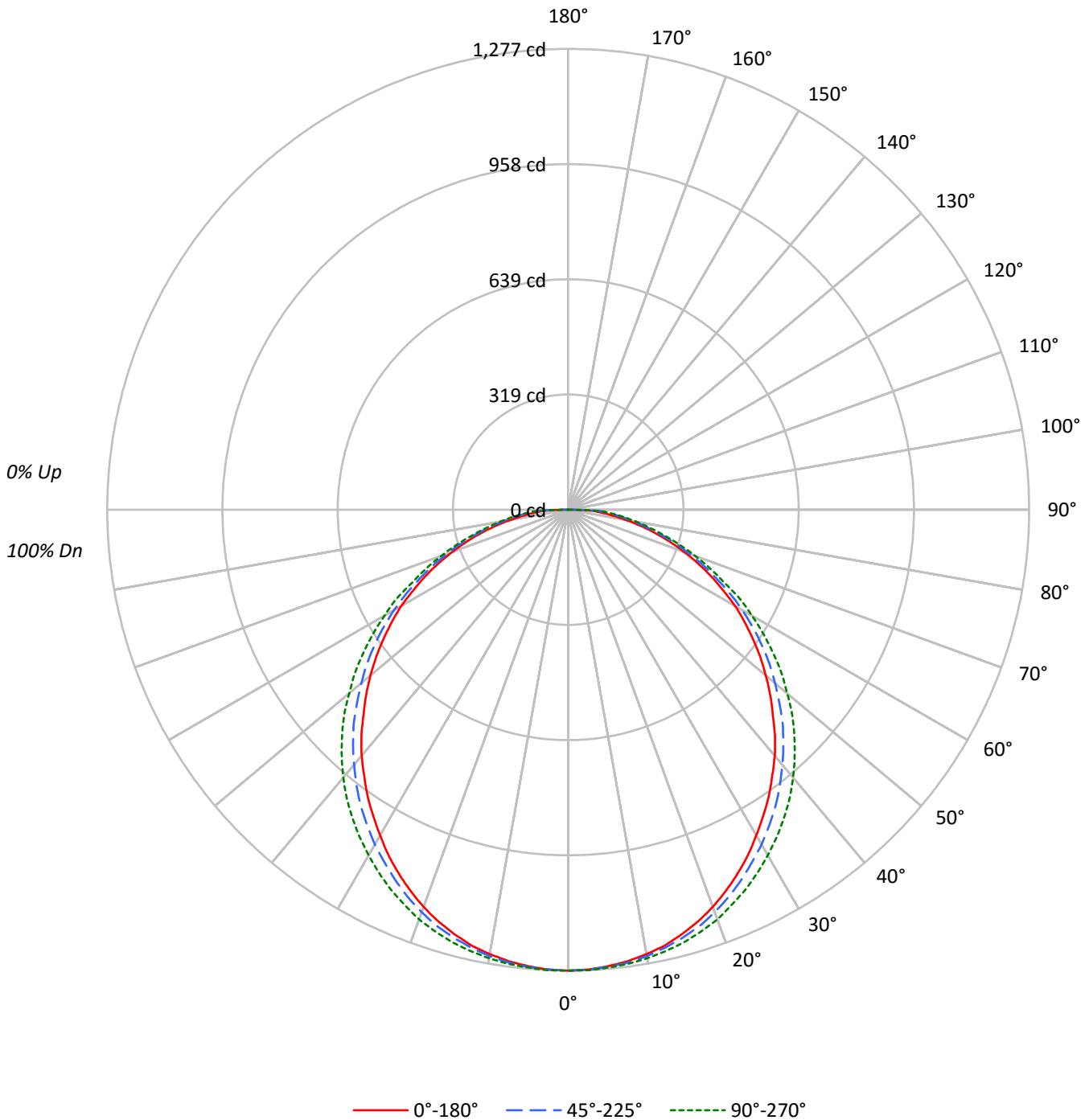
Lumens per Lamp: N/A
Luminaire Lumens: 3704.8 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 30.2
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



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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	108	103	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1719	1719	1719
5°	1709	1704	1708
10°	1696	1690	1699
15°	1677	1670	1690
20°	1652	1646	1679
25°	1619	1615	1660
30°	1581	1583	1639
35°	1547	1550	1618
40°	1511	1509	1591
45°	1464	1469	1557
50°	1425	1416	1508
55°	1382	1364	1454
60°	1340	1299	1382
65°	1278	1217	1285
70°	1204	1128	1197
75°	1118	1032	1092
80°	1002	935	1003
85°	947	888	960



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.9	3.3
10°-20°	346.4	9.3
20°-30°	522.7	14.1
30°-40°	627.4	16.9
40°-50°	649.3	17.5
50°-60°	588.2	15.9
60°-70°	453.2	12.2
70°-80°	280.4	7.6
80°-90°	116.5	3.1
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°	989.9	26.7
0°-40°	1617.3	43.7
0°-60°	2854.7	77.1
0°-90°	3704.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3704.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1277	1277	1277	1277	1277	
5°	1270	1270	1272	1272	1274	121
15°	1218	1220	1227	1235	1241	343
25°	1112	1116	1133	1152	1162	512
35°	969	977	1002	1029	1042	606
45°	802	813	840	871	886	620
55°	624	634	655	684	694	559
65°	437	441	455	474	476	432
75°	248	254	264	276	276	263
85°	91	100	116	123	121	98
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1277.3	1277.3	1277.3	1277.3	1277.3
2.5°	1275.4	1275.4	1275.4	1275.4	1277.3
5°	1269.6	1269.6	1271.6	1271.6	1273.5
7.5°	1261.9	1261.9	1265.8	1265.8	1269.6
10°	1250.4	1252.3	1256.1	1258.1	1261.9
12.5°	1236.9	1236.9	1242.7	1248.4	1252.3
15°	1217.6	1219.5	1227.2	1235.0	1240.7
17.5°	1196.4	1198.3	1209.9	1217.6	1225.3
20°	1171.4	1173.3	1186.8	1198.3	1208.0
22.5°	1142.5	1146.3	1161.7	1177.2	1184.9
25°	1111.7	1115.5	1132.8	1152.1	1161.7
27.5°	1078.9	1084.7	1102.0	1123.2	1134.8
30°	1042.3	1050.0	1071.2	1094.3	1105.9
32.5°	1005.7	1013.4	1036.5	1063.5	1075.0
35°	969.1	976.8	1001.8	1028.8	1042.3
37.5°	928.6	936.3	963.3	992.2	1007.6
40°	890.1	897.8	922.8	955.6	969.1
42.5°	847.7	855.4	882.4	913.2	928.6
45°	801.5	813.0	840.0	870.8	886.2
47.5°	759.1	768.7	793.8	826.5	841.9
50°	714.8	724.4	747.5	780.3	791.8
52.5°	670.5	680.1	703.2	734.0	745.6
55°	624.2	633.9	655.0	683.9	693.6
57.5°	579.9	587.6	606.9	633.9	641.6
60°	533.7	541.4	556.8	581.8	587.6
62.5°	483.6	489.4	506.7	529.8	537.5
65°	437.3	441.2	454.7	473.9	475.9
67.5°	389.2	393.0	406.5	420.0	425.8
70°	341.0	346.8	356.4	369.9	373.8
72.5°	294.8	300.6	310.2	321.7	323.7
75°	248.5	254.3	263.9	275.5	275.5
77.5°	204.2	210.0	221.6	231.2	231.2
80°	159.9	169.5	181.1	190.7	190.7
82.5°	123.3	131.0	146.4	154.1	154.1
85°	90.6	100.2	115.6	123.3	121.4
87.5°	65.5	75.1	88.6	94.4	92.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)