

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: P385357

Luminaire Tested: **24ID-40-L850-CNV**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385357
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-40-L850-CNV
Description: 2X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -
Ballast/Driver: -

Summary

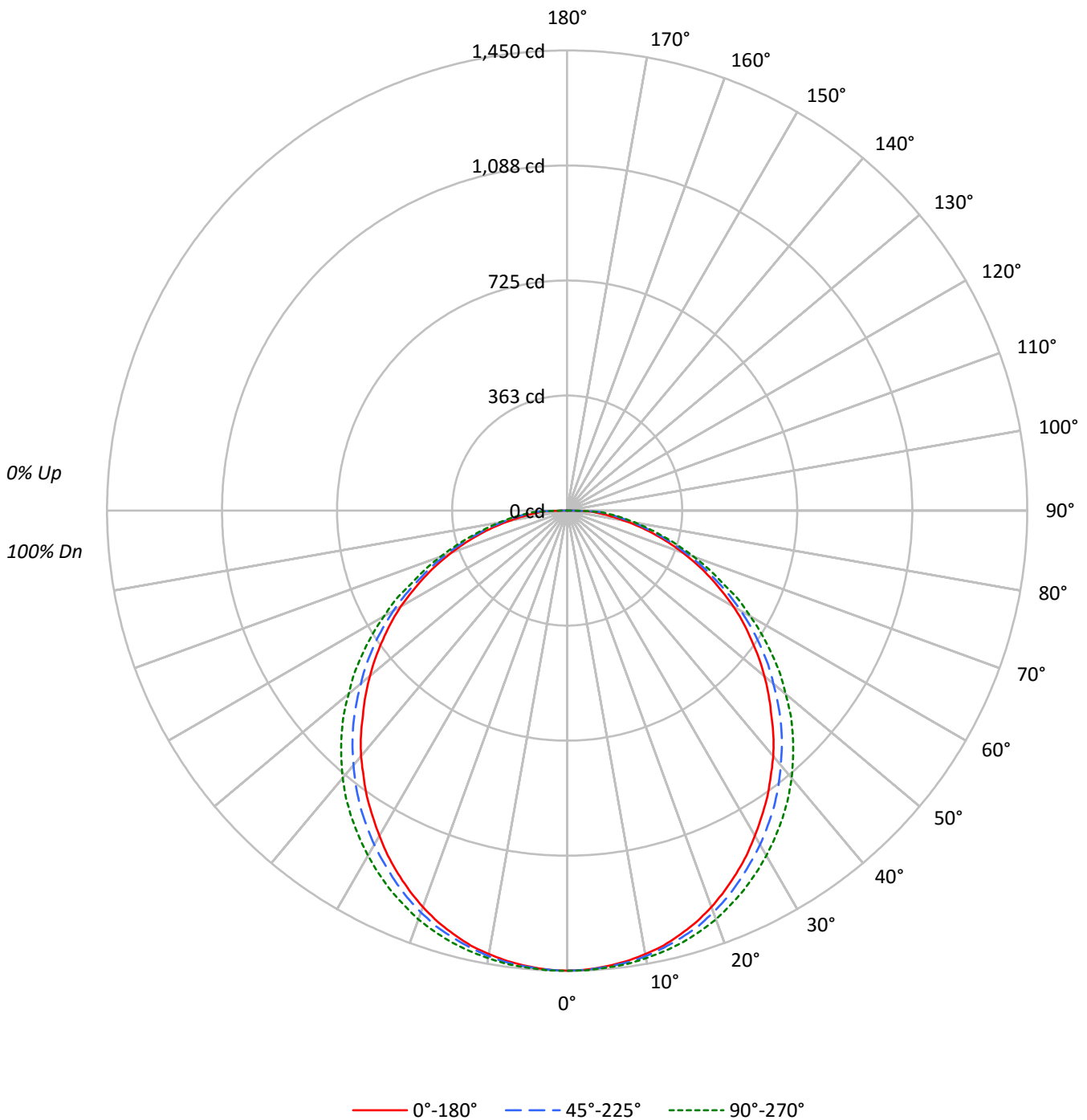
Lumens per Lamp: N/A
Luminaire Lumens: 4205.2 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 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



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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°	1951	1951	1951
5°	1939	1934	1938
10°	1925	1918	1929
15°	1904	1895	1919
20°	1875	1869	1905
25°	1838	1833	1884
30°	1795	1797	1861
35°	1756	1759	1836
40°	1715	1713	1806
45°	1662	1667	1767
50°	1618	1607	1711
55°	1569	1549	1650
60°	1520	1475	1568
65°	1451	1381	1459
70°	1366	1281	1358
75°	1269	1171	1240
80°	1138	1061	1139
85°	1075	1008	1090



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.2	3.3
10°-20°	393.1	9.3
20°-30°	593.3	14.1
30°-40°	712.1	16.9
40°-50°	737.0	17.5
50°-60°	667.7	15.9
60°-70°	514.4	12.2
70°-80°	318.3	7.6
80°-90°	132.2	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°	1123.6	26.7
0°-40°	1835.7	43.7
0°-60°	3240.3	77.1
0°-90°	4205.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4205.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1450	1450	1450	1450	1450	
5°	1441	1441	1443	1443	1446	137
15°	1382	1384	1393	1402	1408	390
25°	1262	1266	1286	1308	1319	581
35°	1100	1109	1137	1168	1183	688
45°	910	923	954	988	1006	703
55°	708	720	744	776	787	634
65°	496	501	516	538	540	491
75°	282	289	300	313	313	299
85°	103	114	131	140	138	111
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1449.9	1449.9	1449.9	1449.9	1449.9
2.5°	1447.7	1447.7	1447.7	1447.7	1449.9
5°	1441.1	1441.1	1443.3	1443.3	1445.5
7.5°	1432.4	1432.4	1436.7	1436.7	1441.1
10°	1419.3	1421.4	1425.8	1428.0	1432.4
12.5°	1403.9	1403.9	1410.5	1417.1	1421.4
15°	1382.1	1384.3	1393.0	1401.8	1408.3
17.5°	1358.0	1360.2	1373.3	1382.1	1390.8
20°	1329.6	1331.8	1347.1	1360.2	1371.1
22.5°	1296.8	1301.2	1318.7	1336.2	1344.9
25°	1261.8	1266.2	1285.9	1307.7	1318.7
27.5°	1224.6	1231.2	1250.9	1274.9	1288.0
30°	1183.1	1191.8	1215.9	1242.1	1255.2
32.5°	1141.5	1150.3	1176.5	1207.1	1220.3
35°	1100.0	1108.7	1137.2	1167.8	1183.1
37.5°	1054.1	1062.8	1093.4	1126.2	1143.7
40°	1010.3	1019.1	1047.5	1084.7	1100.0
42.5°	962.2	971.0	1001.6	1036.6	1054.1
45°	909.7	922.8	953.5	988.4	1005.9
47.5°	861.6	872.5	901.0	938.1	955.6
50°	811.3	822.2	848.5	885.7	898.8
52.5°	761.0	772.0	798.2	833.2	846.3
55°	708.5	719.5	743.5	776.3	787.3
57.5°	658.2	667.0	688.9	719.5	728.2
60°	605.8	614.5	632.0	660.4	667.0
62.5°	548.9	555.5	575.1	601.4	610.1
65°	496.4	500.8	516.1	538.0	540.1
67.5°	441.7	446.1	461.4	476.7	483.3
70°	387.1	393.6	404.6	419.9	424.2
72.5°	334.6	341.1	352.1	365.2	367.4
75°	282.1	288.7	299.6	312.7	312.7
77.5°	231.8	238.4	251.5	262.4	262.4
80°	181.5	192.4	205.6	216.5	216.5
82.5°	140.0	148.7	166.2	174.9	174.9
85°	102.8	113.7	131.2	140.0	137.8
87.5°	74.4	85.3	100.6	107.2	105.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)