

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: P385189

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

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385189
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-L850-CNC
Description: 2X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -
Ballast/Driver: -

Summary

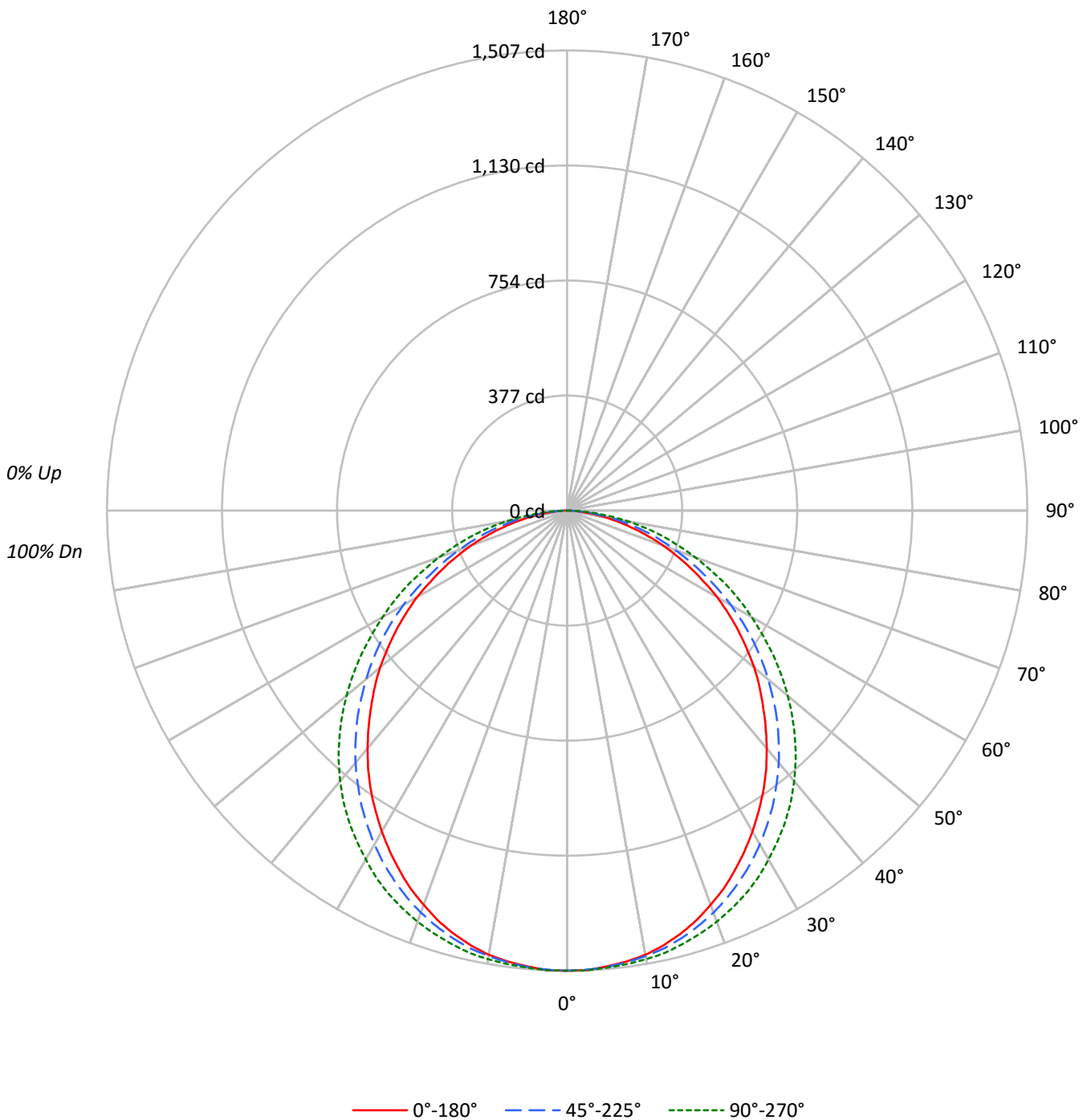
Lumens per Lamp: N/A
Luminaire Lumens: 4183.4 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (A_{in}): 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°	2027	2027	2027
5°	2024	2026	2029
10°	2018	2024	2038
15°	1999	2019	2046
20°	1967	2006	2052
25°	1930	1986	2055
30°	1885	1961	2049
35°	1840	1931	2045
40°	1786	1894	2031
45°	1727	1851	2008
50°	1674	1798	1975
55°	1604	1742	1931
60°	1528	1669	1880
65°	1424	1572	1827
70°	1312	1478	1752
75°	1163	1371	1679
80°	981	1227	1554
85°	716	945	1238



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.6	3.4
10°-20°	409.2	9.8
20°-30°	617.1	14.8
30°-40°	736.7	17.6
40°-50°	753.0	18.0
50°-60°	667.7	16.0
60°-70°	497.7	11.9
70°-80°	284.4	6.8
80°-90°	75.0	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°	1168.9	27.9
0°-40°	1905.7	45.6
0°-60°	3326.3	79.5
0°-90°	4183.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4183.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1507	1507	1507	1507	1507	
5°	1498	1498	1500	1500	1502	142
15°	1435	1439	1450	1462	1469	404
25°	1300	1310	1338	1367	1384	599
35°	1120	1135	1175	1222	1245	700
45°	907	926	973	1026	1055	701
55°	684	696	743	796	823	611
65°	447	458	494	544	574	443
75°	224	234	264	304	323	239
85°	46	48	61	76	80	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1506.7	1506.7	1506.7	1506.7	1506.7
2.5°	1506.7	1504.6	1504.6	1504.6	1506.7
5°	1498.3	1498.3	1500.4	1500.4	1502.5
7.5°	1489.8	1489.8	1491.9	1494.1	1498.3
10°	1477.2	1477.2	1481.4	1487.7	1491.9
12.5°	1458.2	1460.3	1468.7	1477.2	1483.5
15°	1435.0	1439.2	1449.7	1462.4	1468.7
17.5°	1407.5	1411.8	1426.5	1443.4	1451.8
20°	1373.8	1382.2	1401.2	1422.3	1432.9
22.5°	1340.0	1348.4	1371.7	1397.0	1409.6
25°	1299.9	1310.5	1337.9	1367.4	1384.3
27.5°	1257.7	1270.4	1302.0	1335.8	1354.8
30°	1213.4	1228.2	1261.9	1299.9	1318.9
32.5°	1167.0	1181.7	1219.7	1261.9	1283.0
35°	1120.5	1135.3	1175.4	1221.8	1245.0
37.5°	1069.9	1084.7	1126.9	1177.5	1202.8
40°	1017.1	1034.0	1078.3	1129.0	1156.4
42.5°	962.3	981.3	1025.6	1080.4	1107.9
45°	907.4	926.4	972.8	1025.6	1055.1
47.5°	854.6	869.4	915.8	970.7	1000.3
50°	799.8	812.4	858.9	913.7	943.3
52.5°	740.7	757.6	801.9	856.8	884.2
55°	683.7	696.4	742.8	795.6	823.0
57.5°	624.6	637.3	681.6	734.4	759.7
60°	567.7	580.3	620.4	673.2	698.5
62.5°	504.3	517.0	557.1	612.0	637.3
65°	447.4	457.9	493.8	544.4	574.0
67.5°	390.4	400.9	434.7	483.2	506.5
70°	333.4	341.9	375.6	419.9	445.3
72.5°	278.6	287.0	320.8	360.9	382.0
75°	223.7	234.2	263.8	303.9	322.9
77.5°	173.0	183.6	208.9	244.8	261.7
80°	126.6	135.1	158.3	185.7	200.5
82.5°	84.4	90.7	107.6	130.8	141.4
85°	46.4	48.5	61.2	76.0	80.2
87.5°	19.0	19.0	23.2	25.3	27.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)