

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: P385360

Luminaire Tested: **24ID-45-L840-CNV**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385360
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-45-L840-CNV
Description: 2X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -
Ballast/Driver: -

Summary

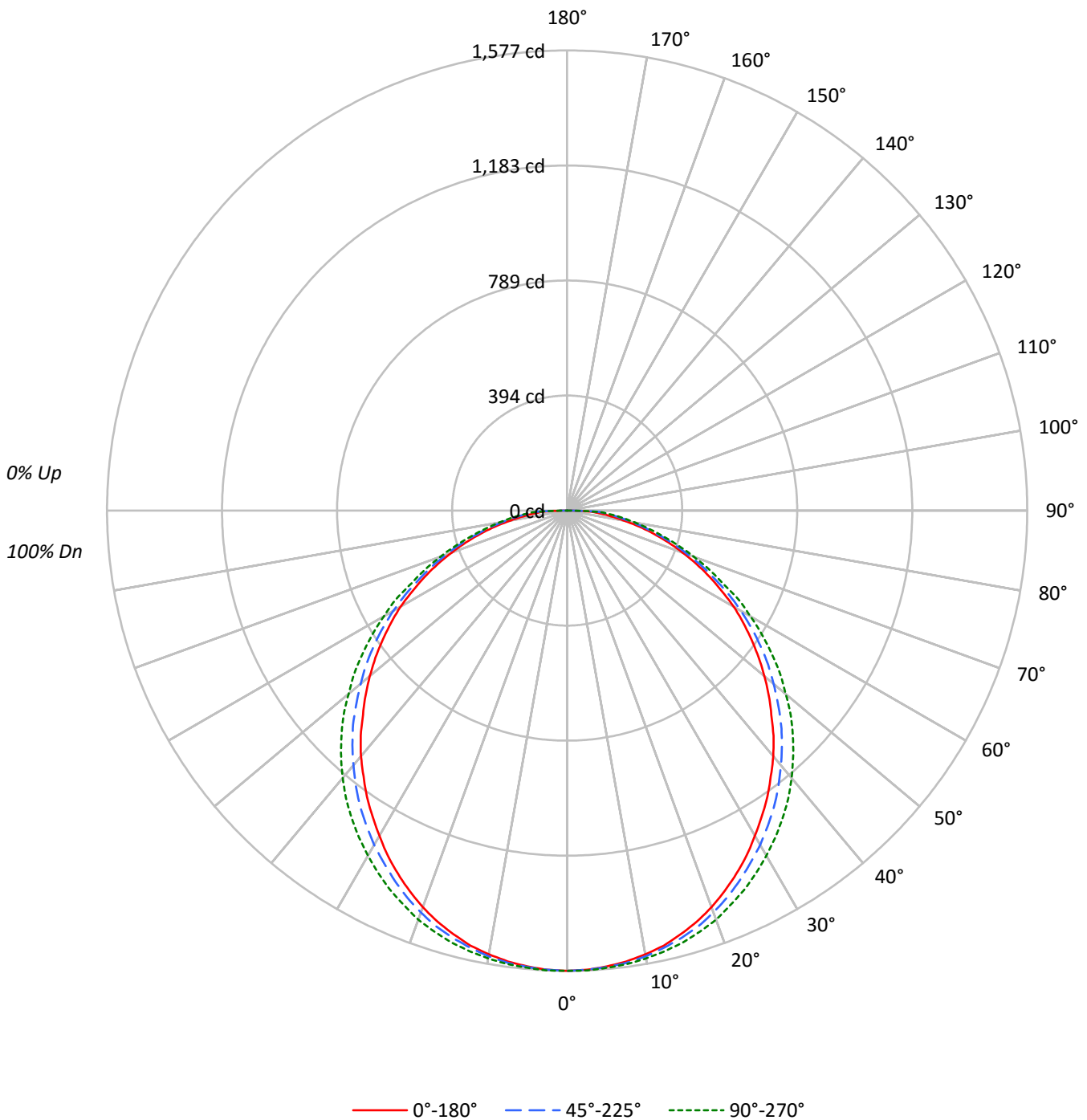
Lumens per Lamp: N/A
Luminaire Lumens: 4575.0 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 40
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	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°	2122	2122	2122
5°	2110	2104	2109
10°	2094	2087	2098
15°	2071	2062	2088
20°	2040	2033	2073
25°	1999	1995	2050
30°	1953	1955	2024
35°	1910	1914	1998
40°	1865	1863	1965
45°	1808	1813	1922
50°	1760	1748	1862
55°	1707	1685	1795
60°	1654	1605	1706
65°	1578	1503	1587
70°	1486	1393	1478
75°	1381	1274	1349
80°	1238	1154	1239
85°	1169	1096	1185



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.2	3.3
10°-20°	427.7	9.3
20°-30°	645.5	14.1
30°-40°	774.7	16.9
40°-50°	801.8	17.5
50°-60°	726.3	15.9
60°-70°	559.6	12.2
70°-80°	346.3	7.6
80°-90°	143.8	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°	1222.4	26.7
0°-40°	1997.2	43.7
0°-60°	3525.3	77.1
0°-90°	4575.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4575.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1577	1577	1577	1577	1577	
5°	1568	1568	1570	1570	1573	149
15°	1504	1506	1516	1525	1532	424
25°	1373	1378	1399	1423	1435	632
35°	1197	1206	1237	1270	1287	748
45°	990	1004	1037	1075	1094	765
55°	771	783	809	845	856	690
65°	540	545	562	585	588	534
75°	307	314	326	340	340	325
85°	112	124	143	152	150	121
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1577.4	1577.4	1577.4	1577.4	1577.4
2.5°	1575.0	1575.0	1575.0	1575.0	1577.4
5°	1567.9	1567.9	1570.2	1570.2	1572.6
7.5°	1558.3	1558.3	1563.1	1563.1	1567.9
10°	1544.1	1546.4	1551.2	1553.6	1558.3
12.5°	1527.4	1527.4	1534.5	1541.7	1546.4
15°	1503.6	1506.0	1515.5	1525.0	1532.2
17.5°	1477.4	1479.8	1494.1	1503.6	1513.1
20°	1446.5	1448.9	1465.5	1479.8	1491.7
22.5°	1410.8	1415.6	1434.6	1453.7	1463.2
25°	1372.8	1377.5	1398.9	1422.7	1434.6
27.5°	1332.3	1339.5	1360.9	1387.0	1401.3
30°	1287.1	1296.6	1322.8	1351.3	1365.6
32.5°	1241.9	1251.4	1280.0	1313.3	1327.6
35°	1196.7	1206.2	1237.2	1270.5	1287.1
37.5°	1146.7	1156.3	1189.6	1225.3	1244.3
40°	1099.2	1108.7	1139.6	1180.1	1196.7
42.5°	1046.8	1056.3	1089.6	1127.7	1146.7
45°	989.7	1004.0	1037.3	1075.4	1094.4
47.5°	937.4	949.3	980.2	1020.6	1039.7
50°	882.7	894.6	923.1	963.6	977.8
52.5°	827.9	839.8	868.4	906.5	920.7
55°	770.8	782.7	808.9	844.6	856.5
57.5°	716.1	725.6	749.4	782.7	792.3
60°	659.0	668.5	687.6	718.5	725.6
62.5°	597.2	604.3	625.7	654.3	663.8
65°	540.1	544.8	561.5	585.3	587.6
67.5°	480.6	485.3	502.0	518.7	525.8
70°	421.1	428.2	440.1	456.8	461.6
72.5°	364.0	371.1	383.0	397.3	399.7
75°	306.9	314.0	325.9	340.2	340.2
77.5°	252.2	259.3	273.6	285.5	285.5
80°	197.5	209.4	223.6	235.5	235.5
82.5°	152.3	161.8	180.8	190.3	190.3
85°	111.8	123.7	142.7	152.3	149.9
87.5°	80.9	92.8	109.4	116.6	114.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)