

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: P385356

Luminaire Tested: **24ID-40-L840-CNV**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385356
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-L840-CNV
Description: 2X4 IN DEPTH TROFFER WITH CONVEX LENS

Light Source: -
Ballast/Driver: -

Summary

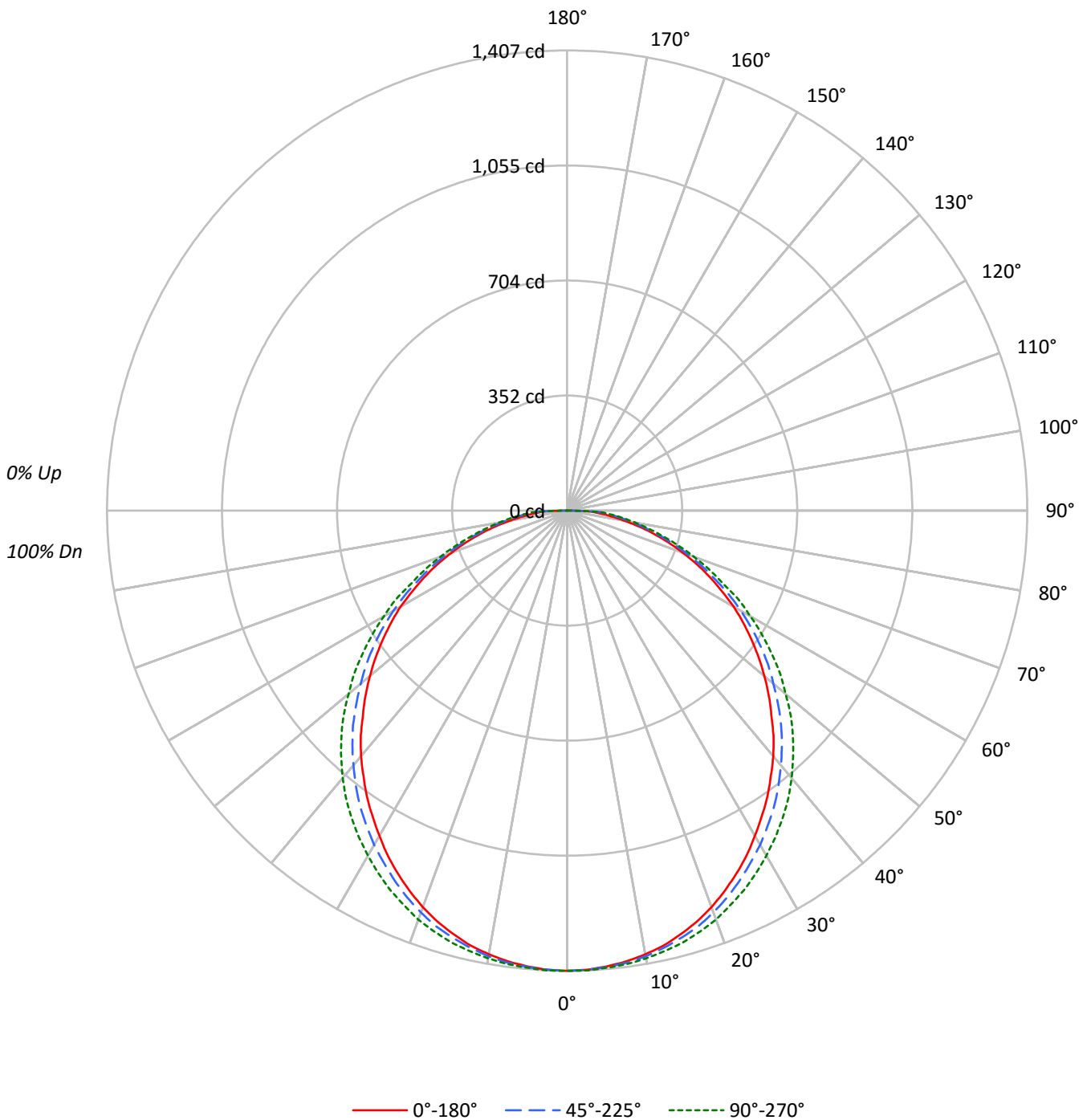
Lumens per Lamp: N/A
Luminaire Lumens: 4081.5 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (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°	1893	1893	1893
5°	1882	1878	1881
10°	1868	1862	1872
15°	1848	1840	1862
20°	1820	1814	1849
25°	1784	1779	1829
30°	1742	1744	1806
35°	1704	1707	1782
40°	1664	1662	1753
45°	1613	1618	1715
50°	1570	1559	1661
55°	1523	1503	1602
60°	1476	1431	1522
65°	1408	1341	1416
70°	1326	1243	1318
75°	1232	1137	1203
80°	1104	1030	1105
85°	1044	978	1057



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.1	3.3
10°-20°	381.6	9.3
20°-30°	575.8	14.1
30°-40°	691.2	16.9
40°-50°	715.3	17.5
50°-60°	648.0	15.9
60°-70°	499.3	12.2
70°-80°	308.9	7.6
80°-90°	128.3	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°	1090.6	26.7
0°-40°	1781.7	43.7
0°-60°	3145.0	77.1
0°-90°	4081.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4081.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1407	1407	1407	1407	1407	
5°	1399	1399	1401	1401	1403	133
15°	1341	1344	1352	1360	1367	378
25°	1225	1229	1248	1269	1280	564
35°	1068	1076	1104	1133	1148	667
45°	883	896	925	959	976	683
55°	688	698	722	754	764	616
65°	482	486	501	522	524	476
75°	274	280	291	304	304	290
85°	100	110	127	136	134	108
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1407.2	1407.2	1407.2	1407.2	1407.2
2.5°	1405.1	1405.1	1405.1	1405.1	1407.2
5°	1398.7	1398.7	1400.9	1400.9	1403.0
7.5°	1390.2	1390.2	1394.5	1394.5	1398.7
10°	1377.5	1379.6	1383.9	1386.0	1390.2
12.5°	1362.6	1362.6	1369.0	1375.4	1379.6
15°	1341.4	1343.5	1352.0	1360.5	1366.9
17.5°	1318.1	1320.2	1332.9	1341.4	1349.9
20°	1290.5	1292.6	1307.5	1320.2	1330.8
22.5°	1258.6	1262.9	1279.9	1296.8	1305.3
25°	1224.7	1228.9	1248.0	1269.3	1279.9
27.5°	1188.6	1195.0	1214.1	1237.4	1250.2
30°	1148.3	1156.8	1180.1	1205.6	1218.3
32.5°	1107.9	1116.4	1141.9	1171.6	1184.4
35°	1067.6	1076.1	1103.7	1133.4	1148.3
37.5°	1023.0	1031.5	1061.3	1093.1	1110.1
40°	980.6	989.1	1016.7	1052.8	1067.6
42.5°	933.9	942.4	972.1	1006.1	1023.0
45°	883.0	895.7	925.4	959.4	976.4
47.5°	836.3	846.9	874.5	910.6	927.5
50°	787.4	798.1	823.5	859.6	872.3
52.5°	738.6	749.2	774.7	808.7	821.4
55°	687.7	698.3	721.7	753.5	764.1
57.5°	638.9	647.4	668.6	698.3	706.8
60°	587.9	596.4	613.4	641.0	647.4
62.5°	532.7	539.1	558.2	583.7	592.2
65°	481.8	486.1	500.9	522.1	524.3
67.5°	428.7	433.0	447.8	462.7	469.1
70°	375.7	382.1	392.7	407.5	411.8
72.5°	324.7	331.1	341.7	354.5	356.6
75°	273.8	280.2	290.8	303.5	303.5
77.5°	225.0	231.4	244.1	254.7	254.7
80°	176.2	186.8	199.5	210.1	210.1
82.5°	135.8	144.3	161.3	169.8	169.8
85°	99.8	110.4	127.4	135.8	133.7
87.5°	72.2	82.8	97.6	104.0	101.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)