

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: P383842

Luminaire Tested: **24ID-40-L830-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383842
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-65)
Test Lab: INNOVATION CENTER (G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-40-L830-CFR1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

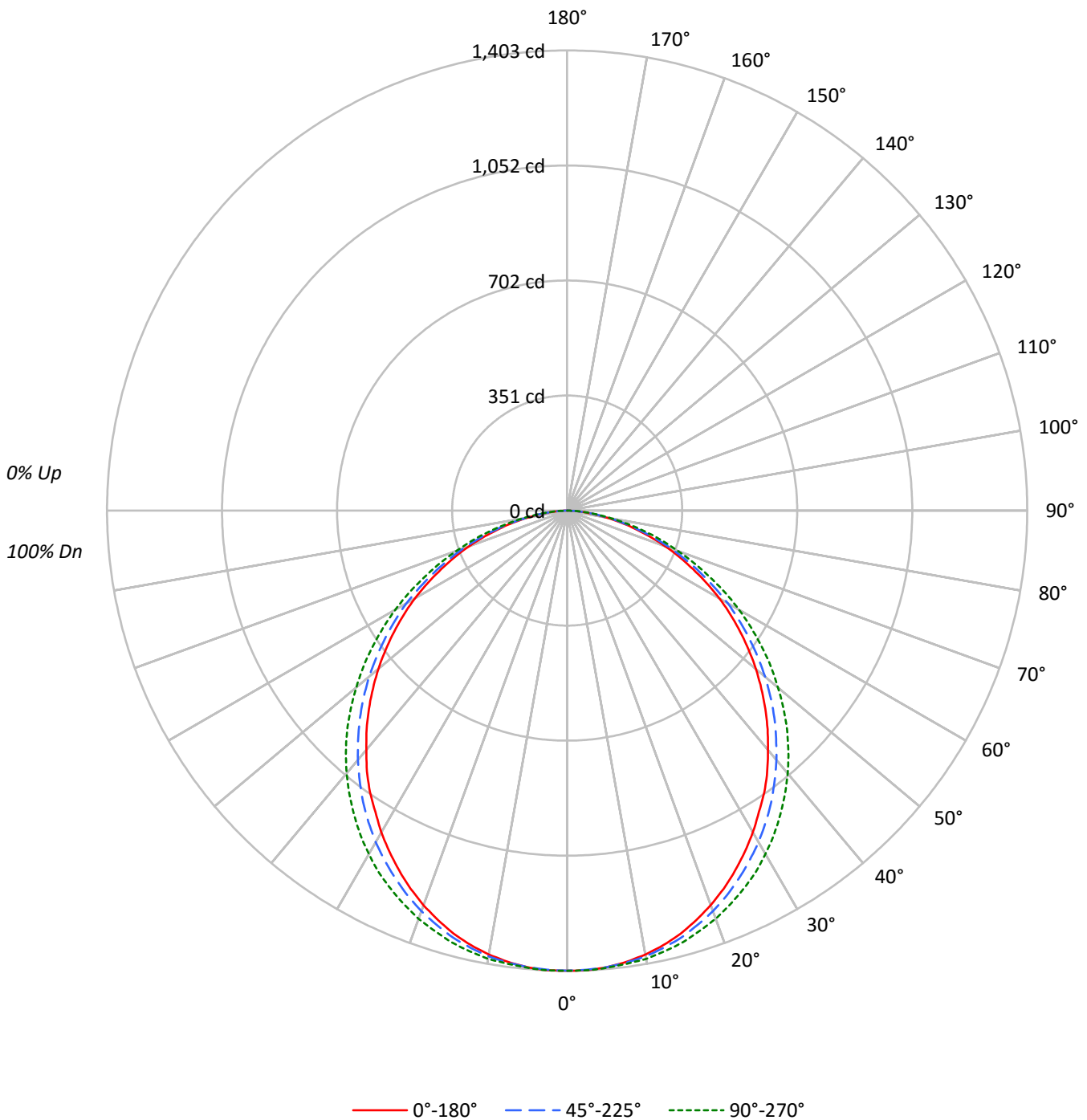
Lumens per Lamp: N/A
Luminaire Lumens: 3810.3 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	81	76	82	78	74	79	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1888	1888	1888
5°	1887	1887	1890
10°	1877	1885	1896
15°	1861	1877	1898
20°	1833	1861	1896
25°	1798	1838	1889
30°	1760	1813	1879
35°	1722	1782	1861
40°	1673	1744	1838
45°	1627	1700	1805
50°	1573	1649	1757
55°	1511	1587	1700
60°	1444	1521	1630
65°	1349	1428	1526
70°	1252	1319	1410
75°	1116	1176	1275
80°	935	980	1069
85°	710	710	798



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.8	3.5
10°-20°	379.9	10.0
20°-30°	571.3	15.0
30°-40°	679.6	17.8
40°-50°	691.5	18.1
50°-60°	608.6	16.0
60°-70°	446.4	11.7
70°-80°	242.3	6.4
80°-90°	57.8	1.5
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°	1084.0	28.4
0°-40°	1763.6	46.3
0°-60°	3063.8	80.4
0°-90°	3810.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3810.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1403	1403	1403	1403	1403	
5°	1397	1395	1397	1397	1399	133
15°	1336	1338	1347	1355	1363	376
25°	1211	1219	1238	1259	1273	558
35°	1048	1056	1085	1117	1133	655
45°	855	862	893	932	949	659
55°	644	654	677	709	724	576
65°	424	431	448	468	479	421
75°	215	218	226	238	245	228
85°	46	46	46	50	52	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1403.0	1403.0	1403.0	1403.0	1403.0
2.5°	1403.0	1401.1	1401.1	1401.1	1403.0
5°	1397.2	1395.3	1397.2	1397.2	1399.2
7.5°	1387.7	1385.7	1389.6	1391.5	1393.4
10°	1374.2	1374.2	1380.0	1383.8	1387.7
12.5°	1357.0	1358.9	1364.7	1370.4	1376.2
15°	1335.9	1337.8	1347.4	1355.1	1362.7
17.5°	1309.1	1312.9	1324.4	1335.9	1343.6
20°	1280.3	1286.1	1299.5	1314.8	1324.4
22.5°	1247.7	1255.4	1270.7	1289.9	1299.5
25°	1211.3	1219.0	1238.2	1259.2	1272.7
27.5°	1173.0	1182.6	1203.7	1228.6	1243.9
30°	1132.7	1142.3	1167.2	1194.1	1209.4
32.5°	1088.7	1100.2	1127.0	1157.7	1173.0
35°	1048.4	1056.1	1084.8	1117.4	1132.7
37.5°	1002.4	1012.0	1038.8	1073.3	1090.6
40°	952.6	962.2	992.8	1027.3	1046.5
42.5°	904.7	912.3	943.0	981.3	998.6
45°	854.8	862.5	893.2	931.5	948.7
47.5°	803.1	812.7	841.4	877.8	895.1
50°	751.3	759.0	787.7	822.2	839.5
52.5°	697.7	705.3	732.2	766.7	783.9
55°	644.0	653.6	676.6	709.2	724.5
57.5°	590.3	599.9	621.0	651.7	665.1
60°	536.7	544.3	565.4	592.2	605.7
62.5°	479.2	484.9	506.0	532.8	544.3
65°	423.6	431.2	448.5	467.7	479.2
67.5°	371.8	375.7	391.0	412.1	419.7
70°	318.2	322.0	335.4	352.7	358.4
72.5°	264.5	270.2	279.8	295.2	302.8
75°	214.7	218.5	226.2	237.7	245.3
77.5°	166.7	168.7	174.4	184.0	189.7
80°	120.7	122.7	126.5	134.2	138.0
82.5°	80.5	82.4	84.3	88.2	92.0
85°	46.0	46.0	46.0	49.8	51.7
87.5°	17.2	15.3	15.3	15.3	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)