

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: P385186

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

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385186
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-L830-CNC
Description: 2X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -
Ballast/Driver: -

Summary

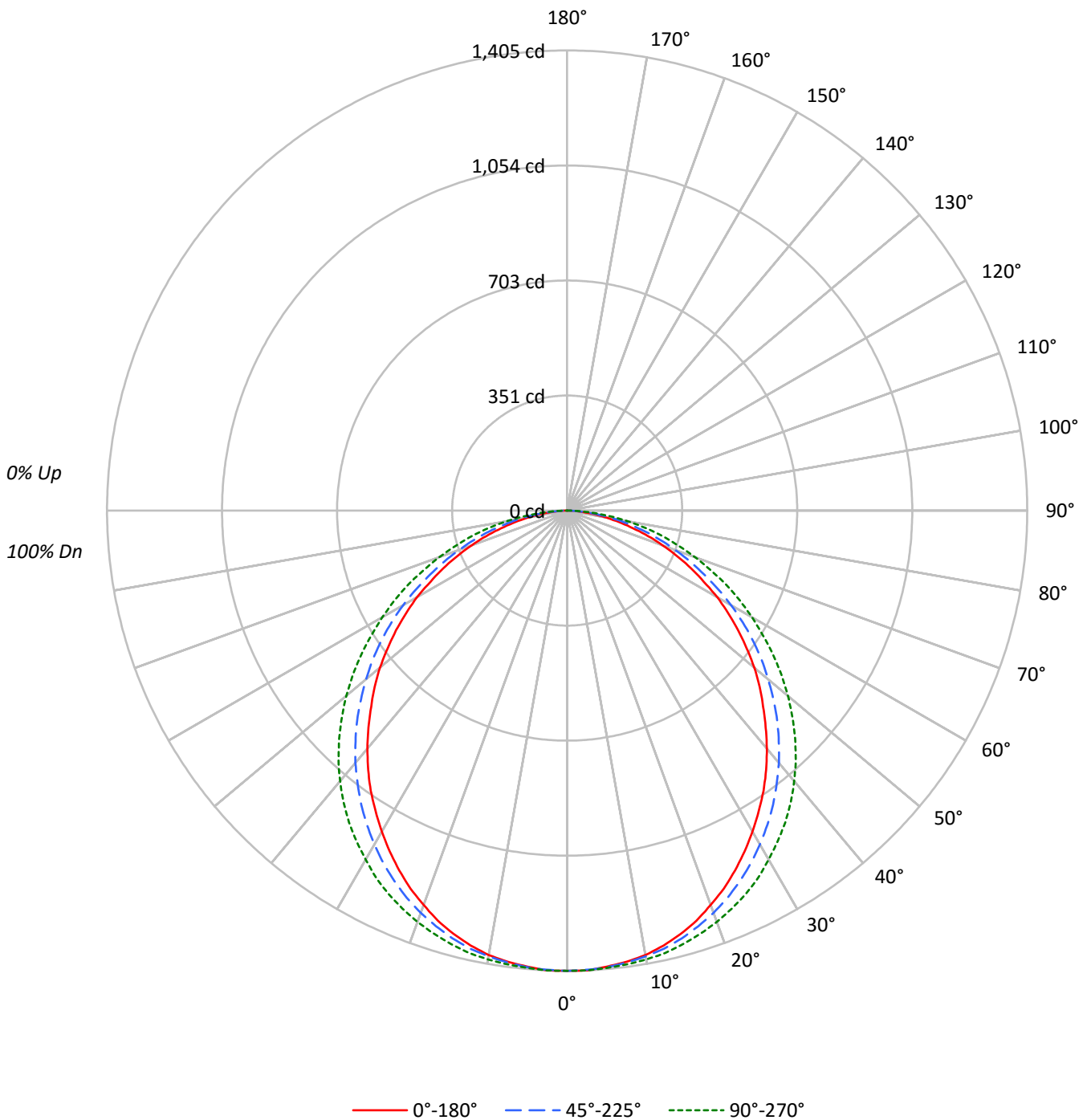
Lumens per Lamp: N/A
Luminaire Lumens: 3902.2 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35.2
Input Voltage (V): NR
Input Current (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	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°	1891	1891	1891
5°	1888	1890	1893
10°	1883	1888	1901
15°	1864	1884	1908
20°	1835	1871	1914
25°	1800	1853	1917
30°	1758	1829	1911
35°	1717	1801	1908
40°	1666	1767	1895
45°	1611	1727	1873
50°	1562	1677	1842
55°	1496	1625	1801
60°	1425	1557	1753
65°	1329	1466	1705
70°	1223	1378	1634
75°	1085	1279	1566
80°	915	1144	1449
85°	668	881	1155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.0	3.4
10°-20°	381.7	9.8
20°-30°	575.6	14.8
30°-40°	687.2	17.6
40°-50°	702.4	18.0
50°-60°	622.8	16.0
60°-70°	464.3	11.9
70°-80°	265.2	6.8
80°-90°	70.0	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°	1090.3	27.9
0°-40°	1777.6	45.6
0°-60°	3102.7	79.5
0°-90°	3902.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3902.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1405	1405	1405	1405	1405	
5°	1398	1398	1400	1400	1402	133
15°	1338	1342	1352	1364	1370	377
25°	1212	1222	1248	1276	1291	558
35°	1045	1059	1096	1140	1161	653
45°	846	864	907	957	984	654
55°	638	650	693	742	768	570
65°	417	427	461	508	535	414
75°	209	218	246	283	301	223
85°	43	45	57	71	75	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1405.4	1405.4	1405.4	1405.4	1405.4
2.5°	1405.4	1403.5	1403.5	1403.5	1405.4
5°	1397.6	1397.6	1399.5	1399.5	1401.5
7.5°	1389.7	1389.7	1391.7	1393.6	1397.6
10°	1377.9	1377.9	1381.8	1387.7	1391.7
12.5°	1360.2	1362.1	1370.0	1377.9	1383.8
15°	1338.5	1342.4	1352.3	1364.1	1370.0
17.5°	1312.9	1316.9	1330.6	1346.4	1354.3
20°	1281.4	1289.3	1307.0	1326.7	1336.5
22.5°	1249.9	1257.8	1279.5	1303.1	1314.9
25°	1212.5	1222.4	1248.0	1275.5	1291.3
27.5°	1173.2	1185.0	1214.5	1246.0	1263.7
30°	1131.8	1145.6	1177.1	1212.5	1230.2
32.5°	1088.5	1102.3	1137.7	1177.1	1196.8
35°	1045.2	1059.0	1096.4	1139.7	1161.4
37.5°	998.0	1011.8	1051.1	1098.4	1122.0
40°	948.8	964.5	1005.9	1053.1	1078.7
42.5°	897.6	915.3	956.6	1007.8	1033.4
45°	846.4	864.1	907.4	956.6	984.2
47.5°	797.2	811.0	854.3	905.5	933.0
50°	746.0	757.8	801.1	852.3	879.9
52.5°	690.9	706.7	748.0	799.2	824.8
55°	637.8	649.6	692.9	742.1	767.7
57.5°	582.6	594.5	635.8	685.0	708.6
60°	529.5	541.3	578.7	627.9	651.5
62.5°	470.4	482.3	519.7	570.8	594.5
65°	417.3	427.1	460.6	507.8	535.4
67.5°	364.2	374.0	405.5	450.8	472.4
70°	311.0	318.9	350.4	391.7	415.3
72.5°	259.8	267.7	299.2	336.6	356.3
75°	208.7	218.5	246.0	283.4	301.2
77.5°	161.4	171.3	194.9	228.3	244.1
80°	118.1	126.0	147.6	173.2	187.0
82.5°	78.7	84.6	100.4	122.0	131.9
85°	43.3	45.3	57.1	70.9	74.8
87.5°	17.7	17.7	21.7	23.6	25.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)