

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: P385194

Luminaire Tested: **24ID-50-L830-CNC**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385194
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-50-L830-CNC
Description: 2X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -
Ballast/Driver: -

Summary

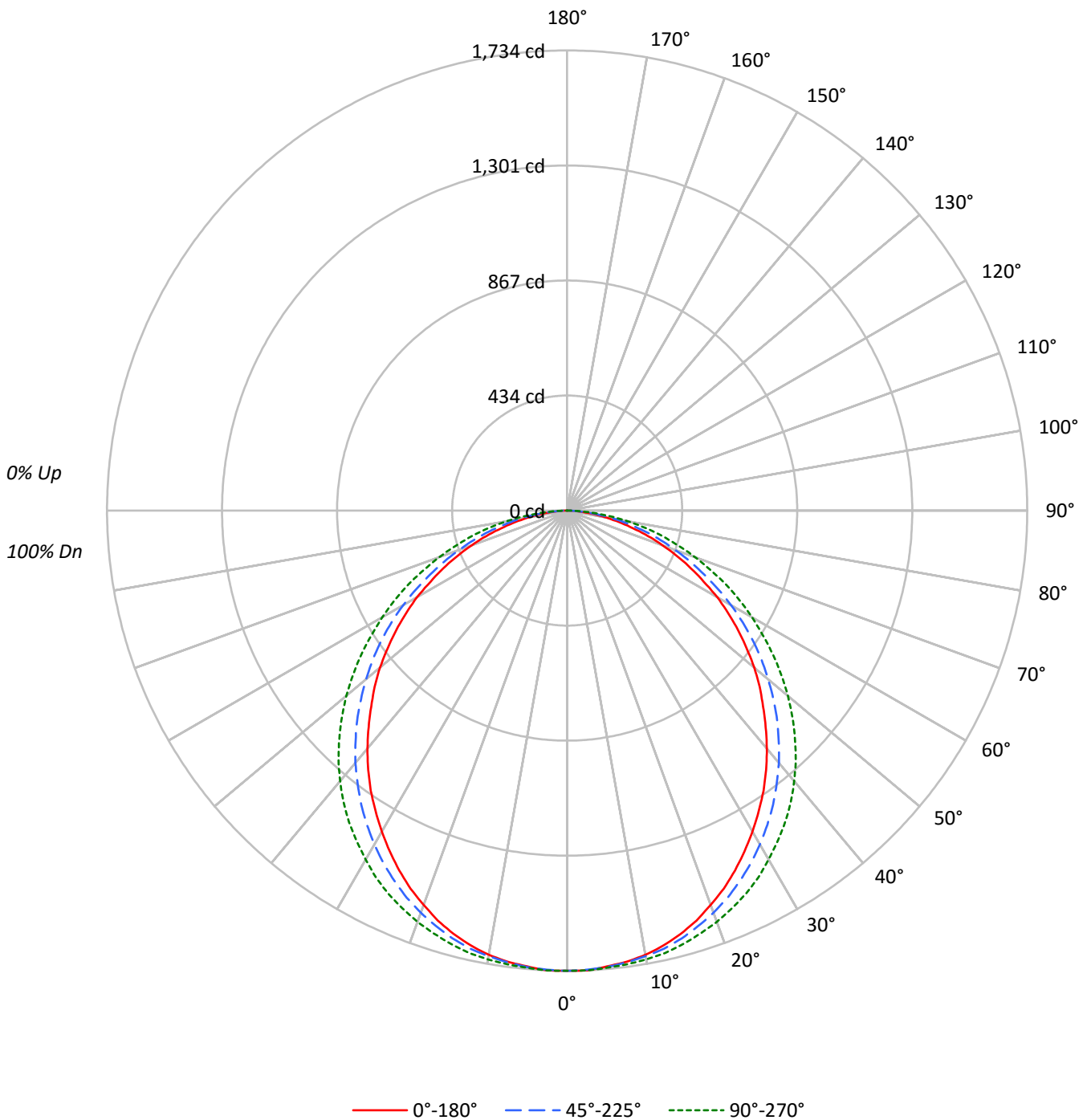
Lumens per Lamp: N/A
Luminaire Lumens: 4815.1 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44.1
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



TEST NUMBER: P385194
CATALOG NUMBER: 24ID-50-L830-CNC

Luminous Intensity Polar Plot





TEST NUMBER: P385194

CATALOG NUMBER: 24ID-50-L830-CNC

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°	2333	2333	2333
5°	2329	2332	2336
10°	2323	2330	2346
15°	2301	2324	2355
20°	2264	2309	2361
25°	2221	2286	2366
30°	2170	2257	2359
35°	2118	2222	2354
40°	2056	2180	2338
45°	1987	2131	2311
50°	1927	2069	2273
55°	1846	2006	2222
60°	1758	1922	2164
65°	1639	1810	2103
70°	1510	1701	2016
75°	1339	1578	1932
80°	1129	1412	1788
85°	824	1087	1425



TEST NUMBER: P385194

CATALOG NUMBER: 24ID-50-L830-CNC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.2	3.4
10°-20°	471.0	9.8
20°-30°	710.3	14.8
30°-40°	848.0	17.6
40°-50°	866.7	18.0
50°-60°	768.5	16.0
60°-70°	572.9	11.9
70°-80°	327.3	6.8
80°-90°	86.3	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°	1345.4	27.9
0°-40°	2193.4	45.6
0°-60°	3828.6	79.5
0°-90°	4815.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4815.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1734	1734	1734	1734	1734	
5°	1724	1724	1727	1727	1729	164
15°	1652	1656	1669	1683	1690	465
25°	1496	1508	1540	1574	1593	689
35°	1290	1307	1353	1406	1433	806
45°	1044	1066	1120	1180	1214	807
55°	787	802	855	916	947	703
65°	515	527	568	627	661	510
75°	258	270	304	350	372	275
85°	53	56	70	87	92	67
90°	0	0	0	0	0	



TEST NUMBER: P385194

CATALOG NUMBER: 24ID-50-L830-CNC

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1734.2	1734.2	1734.2	1734.2	1734.2
2.5°	1734.2	1731.8	1731.8	1731.8	1734.2
5°	1724.5	1724.5	1726.9	1726.9	1729.4
7.5°	1714.8	1714.8	1717.2	1719.7	1724.5
10°	1700.2	1700.2	1705.1	1712.4	1717.2
12.5°	1678.4	1680.8	1690.5	1700.2	1707.5
15°	1651.6	1656.5	1668.7	1683.2	1690.5
17.5°	1620.1	1624.9	1641.9	1661.4	1671.1
20°	1581.2	1590.9	1612.8	1637.1	1649.2
22.5°	1542.3	1552.1	1578.8	1607.9	1622.5
25°	1496.2	1508.3	1539.9	1573.9	1593.4
27.5°	1447.6	1462.2	1498.6	1537.5	1559.4
30°	1396.6	1413.6	1452.5	1496.2	1518.1
32.5°	1343.2	1360.2	1403.9	1452.5	1476.8
35°	1289.7	1306.7	1352.9	1406.3	1433.0
37.5°	1231.4	1248.5	1297.0	1355.3	1384.5
40°	1170.7	1190.2	1241.2	1299.5	1331.0
42.5°	1107.6	1129.4	1180.4	1243.6	1275.2
45°	1044.4	1066.3	1119.7	1180.4	1214.4
47.5°	983.7	1000.7	1054.1	1117.3	1151.3
50°	920.6	935.1	988.6	1051.7	1085.7
52.5°	852.5	872.0	923.0	986.1	1017.7
55°	787.0	801.5	855.0	915.7	947.3
57.5°	719.0	733.5	784.5	845.3	874.4
60°	653.4	667.9	714.1	774.8	804.0
62.5°	580.5	595.1	641.2	704.4	733.5
65°	514.9	527.1	568.4	626.7	660.7
67.5°	449.3	461.5	500.4	556.2	582.9
70°	383.8	393.5	432.3	483.4	512.5
72.5°	320.6	330.3	369.2	415.3	439.6
75°	257.5	269.6	303.6	349.8	371.6
77.5°	199.2	211.3	240.5	281.8	301.2
80°	145.7	155.4	182.2	213.7	230.7
82.5°	97.2	104.4	123.9	150.6	162.7
85°	53.4	55.9	70.4	87.4	92.3
87.5°	21.9	21.9	26.7	29.1	31.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)