

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: P384014

Luminaire Tested: **24ID-45-L830-CFR2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P384014
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-66)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24ID-45-L830-CFR2
Description: 2X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

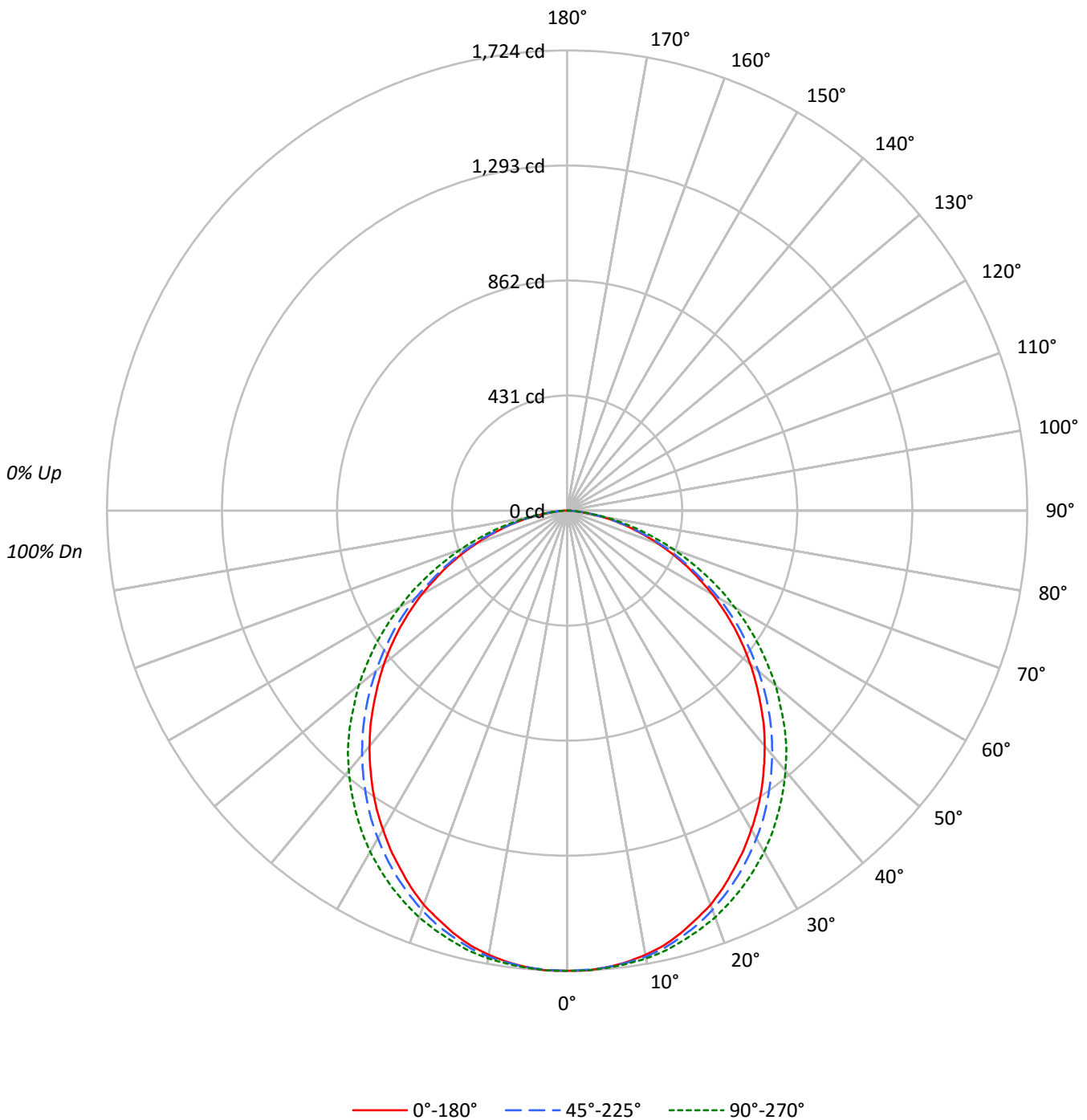
Lumens per Lamp: N/A
Luminaire Lumens: 4552.0 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P384014
CATALOG NUMBER: 24ID-45-L830-CFR2

Luminous Intensity Polar Plot





TEST NUMBER: P384014

CATALOG NUMBER: 24ID-45-L830-CFR2

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	105	101	97	107	102	99	95	98	95	92		94	92	89		91	89	87	85
2	100	92	85	79	97	90	84	79	86	81	77		83	79	75		80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65		73	68	64		71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55		66	60	55		63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48		59	53	48		57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42		53	47	42		52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	37		49	42	37		47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33		45	38	33		44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30		41	35	30		40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27		38	32	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2320	2320	2320
5°	2320	2320	2323
10°	2309	2319	2328
15°	2284	2303	2326
20°	2250	2280	2322
25°	2198	2245	2309
30°	2144	2204	2293
35°	2087	2154	2267
40°	2023	2099	2235
45°	1949	2035	2192
50°	1876	1958	2134
55°	1792	1873	2055
60°	1694	1768	1952
65°	1576	1627	1823
70°	1427	1480	1669
75°	1245	1292	1459
80°	1007	1025	1149
85°	599	668	563



TEST NUMBER: P384014

CATALOG NUMBER: 24ID-45-L830-CFR2

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.2	3.6
10°-20°	466.6	10.2
20°-30°	697.9	15.3
30°-40°	824.6	18.1
40°-50°	832.1	18.3
50°-60°	722.6	15.9
60°-70°	518.1	11.4
70°-80°	269.9	5.9
80°-90°	57.0	1.3
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°	1327.7	29.2
0°-40°	2152.3	47.3
0°-60°	3706.9	81.4
0°-90°	4552.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4552.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1724	1724	1724	1724	1724	
5°	1718	1715	1718	1718	1720	163
15°	1640	1642	1654	1665	1670	462
25°	1480	1489	1512	1542	1556	682
35°	1270	1280	1312	1359	1380	794
45°	1024	1036	1070	1124	1152	791
55°	764	771	798	851	876	682
65°	495	493	511	550	572	489
75°	240	237	249	267	281	255
85°	39	43	43	39	36	55
90°	0	0	0	0	0	



TEST NUMBER: P384014

CATALOG NUMBER: 24ID-45-L830-CFR2

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1724.4	1724.4	1724.4	1724.4	1724.4
2.5°	1724.4	1722.1	1722.1	1722.1	1724.4
5°	1717.5	1715.2	1717.5	1717.5	1719.8
7.5°	1706.1	1703.8	1708.4	1710.7	1713.0
10°	1690.1	1690.1	1697.0	1701.5	1703.8
12.5°	1669.6	1669.6	1678.7	1685.6	1690.1
15°	1640.0	1642.2	1653.6	1665.1	1669.6
17.5°	1605.8	1612.6	1626.3	1642.2	1646.8
20°	1571.5	1576.1	1592.1	1612.6	1621.7
22.5°	1528.2	1535.0	1553.3	1580.7	1589.8
25°	1480.3	1489.4	1512.2	1541.9	1555.6
27.5°	1432.4	1439.2	1466.6	1500.8	1516.8
30°	1379.9	1389.1	1418.7	1457.5	1475.7
32.5°	1327.5	1334.3	1368.5	1409.6	1430.1
35°	1270.5	1279.6	1311.5	1359.4	1379.9
37.5°	1211.2	1222.6	1254.5	1304.7	1327.5
40°	1151.9	1158.7	1195.2	1245.4	1272.7
42.5°	1090.3	1099.4	1133.6	1188.3	1215.7
45°	1024.1	1035.5	1069.7	1124.5	1151.9
47.5°	960.3	971.7	1003.6	1058.3	1083.4
50°	896.4	903.2	935.2	989.9	1019.6
52.5°	830.2	837.1	866.7	919.2	946.6
55°	764.1	770.9	798.3	850.8	875.9
57.5°	695.7	700.2	727.6	775.5	800.6
60°	629.5	631.8	656.9	700.2	725.3
62.5°	558.8	561.1	579.3	629.5	652.3
65°	495.0	492.7	510.9	549.7	572.5
67.5°	428.8	428.8	444.8	479.0	497.2
70°	362.7	362.7	376.3	406.0	424.2
72.5°	301.1	301.1	312.5	335.3	349.0
75°	239.5	237.2	248.6	266.9	280.6
77.5°	182.5	182.5	187.0	203.0	212.1
80°	130.0	130.0	132.3	141.4	148.3
82.5°	82.1	82.1	82.1	86.7	89.0
85°	38.8	43.3	43.3	38.8	36.5
87.5°	18.2	18.2	16.0	16.0	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)