

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: P383738

Luminaire Tested: **14ID-45-L830-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383738
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: 14ID-45-L830-CFR1
Description: 1X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

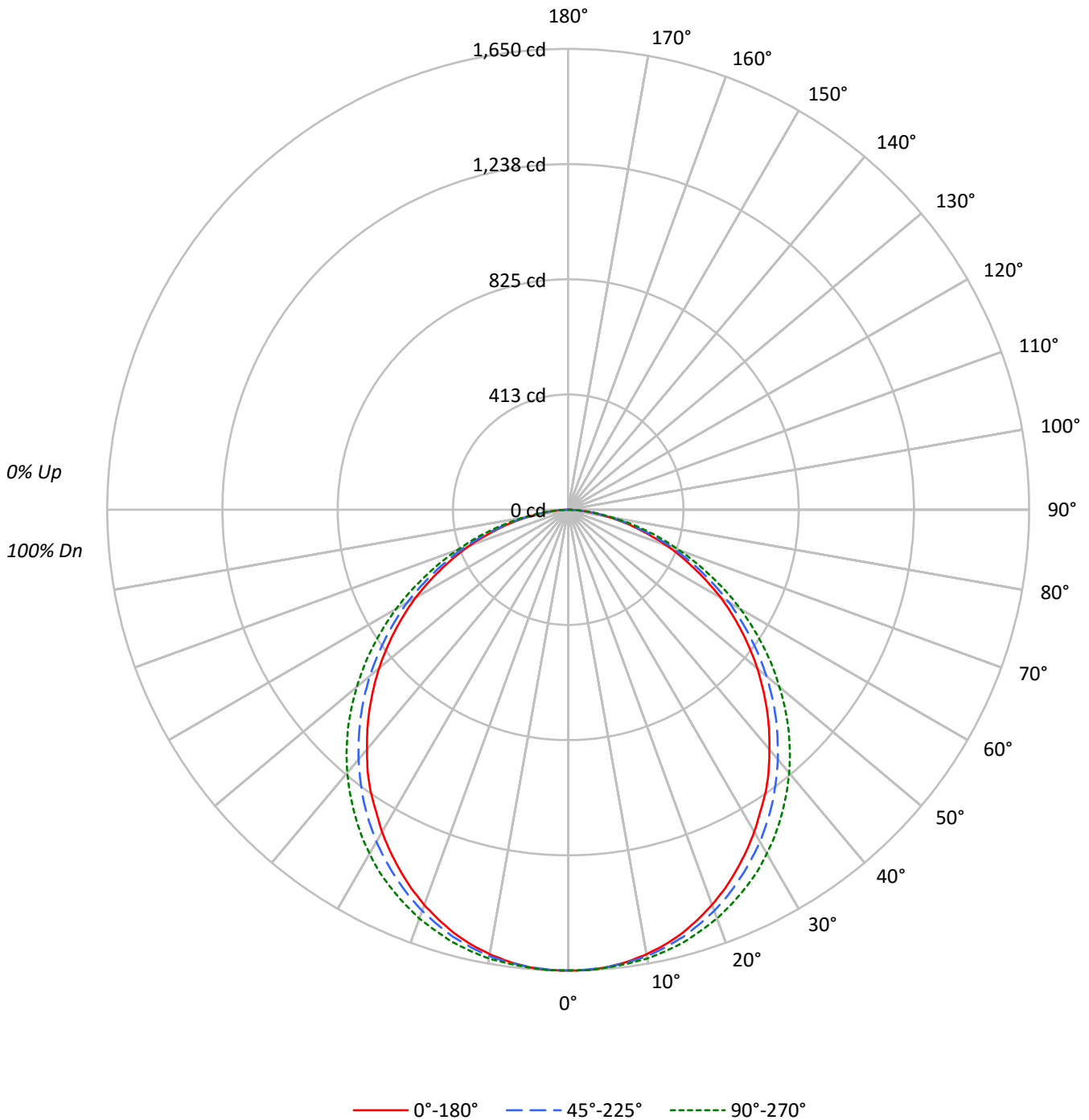
Lumens per Lamp: N/A
Luminaire Lumens: 4481.0 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 38.1
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



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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°	4440	4440	4440
5°	4439	4439	4445
10°	4416	4435	4459
15°	4377	4415	4465
20°	4312	4376	4460
25°	4230	4323	4444
30°	4139	4265	4419
35°	4050	4191	4376
40°	3935	4102	4323
45°	3826	3997	4246
50°	3699	3878	4133
55°	3553	3733	3997
60°	3397	3578	3834
65°	3172	3358	3588
70°	2944	3104	3316
75°	2625	2766	3000
80°	2201	2306	2515
85°	1670	1670	1880



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.2	3.5
10°-20°	446.8	10.0
20°-30°	671.9	15.0
30°-40°	799.2	17.8
40°-50°	813.2	18.1
50°-60°	715.7	16.0
60°-70°	525.0	11.7
70°-80°	285.0	6.4
80°-90°	68.0	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°	1274.8	28.4
0°-40°	2074.1	46.3
0°-60°	3603.0	80.4
0°-90°	4481.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4481.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1650	1650	1650	1650	1650	
5°	1643	1641	1643	1643	1645	156
15°	1571	1573	1585	1594	1603	443
25°	1424	1434	1456	1481	1497	656
35°	1233	1242	1276	1314	1332	770
45°	1005	1014	1050	1096	1116	775
55°	757	769	796	834	852	677
65°	498	507	527	550	564	495
75°	252	257	266	280	288	268
85°	54	54	54	59	61	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1649.9	1649.9	1649.9	1649.9	1649.9
2.5°	1649.9	1647.7	1647.7	1647.7	1649.9
5°	1643.2	1640.9	1643.2	1643.2	1645.4
7.5°	1631.9	1629.7	1634.2	1636.4	1638.7
10°	1616.1	1616.1	1622.9	1627.4	1631.9
12.5°	1595.8	1598.1	1604.9	1611.6	1618.4
15°	1571.1	1573.3	1584.6	1593.6	1602.6
17.5°	1539.5	1544.0	1557.5	1571.1	1580.1
20°	1505.7	1512.4	1528.2	1546.3	1557.5
22.5°	1467.4	1476.4	1494.4	1517.0	1528.2
25°	1424.5	1433.6	1456.1	1480.9	1496.7
27.5°	1379.5	1390.7	1415.5	1444.8	1462.9
30°	1332.1	1343.4	1372.7	1404.3	1422.3
32.5°	1280.3	1293.8	1325.4	1361.4	1379.5
35°	1232.9	1242.0	1275.8	1314.1	1332.1
37.5°	1178.9	1190.1	1221.7	1262.3	1282.5
40°	1120.2	1131.5	1167.6	1208.2	1230.7
42.5°	1063.9	1072.9	1109.0	1154.1	1174.3
45°	1005.3	1014.3	1050.4	1095.5	1115.7
47.5°	944.4	955.7	989.5	1032.3	1052.6
50°	883.6	892.6	926.4	967.0	987.3
52.5°	820.5	829.5	861.0	901.6	921.9
55°	757.4	768.6	795.7	834.0	852.0
57.5°	694.2	705.5	730.3	766.4	782.1
60°	631.1	640.1	664.9	696.5	712.3
62.5°	563.5	570.3	595.1	626.6	640.1
65°	498.1	507.2	527.4	550.0	563.5
67.5°	437.3	441.8	459.8	484.6	493.6
70°	374.2	378.7	394.5	414.7	421.5
72.5°	311.1	317.8	329.1	347.1	356.1
75°	252.5	257.0	266.0	279.5	288.5
77.5°	196.1	198.4	205.1	216.4	223.1
80°	142.0	144.3	148.8	157.8	162.3
82.5°	94.7	96.9	99.2	103.7	108.2
85°	54.1	54.1	54.1	58.6	60.9
87.5°	20.3	18.0	18.0	18.0	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)