

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: P383794

Luminaire Tested: **22ID-45-L830-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383794
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: 22ID-45-L830-CFR1
Description: 2X2 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

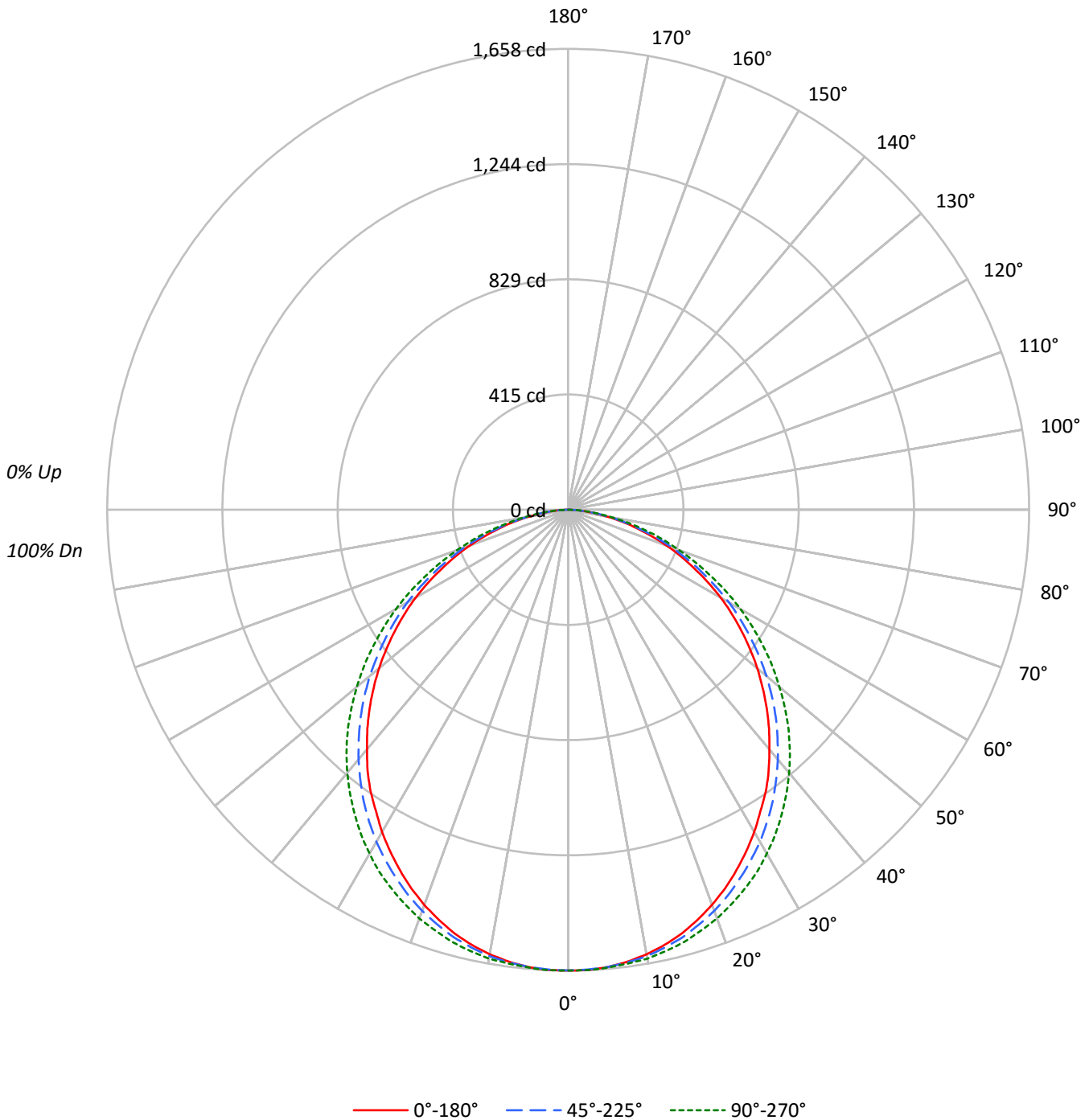
Lumens per Lamp: N/A
Luminaire Lumens: 4502.9 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 37.2
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°	4462	4462	4462
5°	4460	4460	4467
10°	4438	4456	4481
15°	4398	4436	4486
20°	4333	4398	4482
25°	4250	4344	4466
30°	4159	4286	4441
35°	4070	4211	4397
40°	3954	4122	4344
45°	3844	4017	4267
50°	3717	3897	4153
55°	3571	3751	4017
60°	3413	3596	3852
65°	3188	3375	3606
70°	2958	3119	3333
75°	2638	2779	3014
80°	2211	2317	2528
85°	1680	1680	1890



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.9	3.5
10°-20°	449.0	10.0
20°-30°	675.1	15.0
30°-40°	803.1	17.8
40°-50°	817.2	18.1
50°-60°	719.2	16.0
60°-70°	527.6	11.7
70°-80°	286.4	6.4
80°-90°	68.3	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°	1281.1	28.4
0°-40°	2084.2	46.3
0°-60°	3620.6	80.4
0°-90°	4502.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4502.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1658	1658	1658	1658	1658	
5°	1651	1649	1651	1651	1654	157
15°	1579	1581	1592	1601	1610	445
25°	1432	1441	1463	1488	1504	659
35°	1239	1248	1282	1320	1339	774
45°	1010	1019	1056	1101	1121	779
55°	761	772	800	838	856	681
65°	501	510	530	553	566	498
75°	254	258	267	281	290	270
85°	54	54	54	59	61	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1658.0	1658.0	1658.0	1658.0	1658.0
2.5°	1658.0	1655.7	1655.7	1655.7	1658.0
5°	1651.2	1648.9	1651.2	1651.2	1653.5
7.5°	1639.9	1637.6	1642.1	1644.4	1646.7
10°	1624.0	1624.0	1630.8	1635.4	1639.9
12.5°	1603.6	1605.9	1612.7	1619.5	1626.3
15°	1578.7	1581.0	1592.3	1601.4	1610.4
17.5°	1547.0	1551.5	1565.1	1578.7	1587.8
20°	1513.0	1519.8	1535.7	1553.8	1565.1
22.5°	1474.5	1483.6	1501.7	1524.4	1535.7
25°	1431.5	1440.6	1463.2	1488.1	1504.0
27.5°	1386.2	1397.5	1422.4	1451.9	1470.0
30°	1338.6	1350.0	1379.4	1411.1	1429.2
32.5°	1286.5	1300.1	1331.8	1368.1	1386.2
35°	1239.0	1248.0	1282.0	1320.5	1338.6
37.5°	1184.6	1195.9	1227.6	1268.4	1288.8
40°	1125.7	1137.0	1173.3	1214.1	1236.7
42.5°	1069.1	1078.2	1114.4	1159.7	1180.1
45°	1010.2	1019.3	1055.5	1100.8	1121.2
47.5°	949.0	960.4	994.3	1037.4	1057.8
50°	887.9	897.0	930.9	971.7	992.1
52.5°	824.5	833.5	865.2	906.0	926.4
55°	761.1	772.4	799.6	838.1	856.2
57.5°	697.6	709.0	733.9	770.1	786.0
60°	634.2	643.3	668.2	699.9	715.8
62.5°	566.3	573.1	598.0	629.7	643.3
65°	500.6	509.6	530.0	552.7	566.3
67.5°	439.4	443.9	462.1	487.0	496.0
70°	376.0	380.5	396.4	416.8	423.6
72.5°	312.6	319.4	330.7	348.8	357.9
75°	253.7	258.2	267.3	280.9	289.9
77.5°	197.1	199.3	206.1	217.4	224.2
80°	142.7	145.0	149.5	158.6	163.1
82.5°	95.1	97.4	99.7	104.2	108.7
85°	54.4	54.4	54.4	58.9	61.2
87.5°	20.4	18.1	18.1	18.1	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)