

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: P383739

Luminaire Tested: **14ID-45-L835-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383739
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-L835-CFR1
Description: 1X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

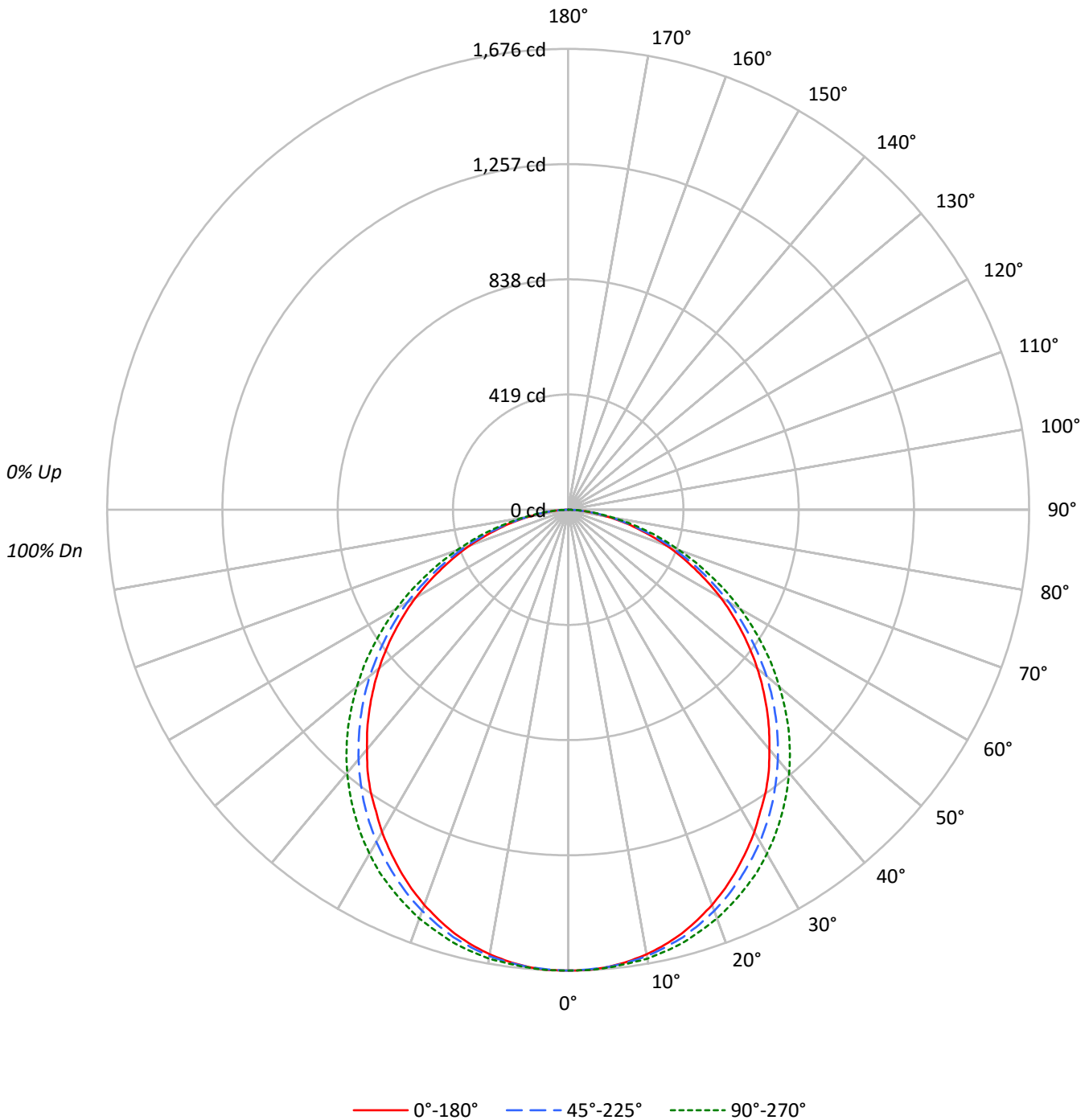
Lumens per Lamp: N/A
Luminaire Lumens: 4552.1 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	4510	4510	4510
5°	4509	4509	4515
10°	4486	4505	4530
15°	4446	4484	4535
20°	4380	4446	4531
25°	4297	4392	4514
30°	4205	4333	4490
35°	4115	4257	4446
40°	3998	4167	4392
45°	3886	4061	4313
50°	3758	3940	4199
55°	3610	3792	4061
60°	3450	3636	3894
65°	3222	3412	3645
70°	2991	3153	3369
75°	2667	2809	3047
80°	2236	2342	2555
85°	1698	1698	1908



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.6	3.5
10°-20°	453.9	10.0
20°-30°	682.5	15.0
30°-40°	811.9	17.8
40°-50°	826.1	18.1
50°-60°	727.1	16.0
60°-70°	533.3	11.7
70°-80°	289.5	6.4
80°-90°	69.1	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°	1295.1	28.4
0°-40°	2107.0	46.3
0°-60°	3660.2	80.4
0°-90°	4552.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4552.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1676	1676	1676	1676	1676	
5°	1669	1667	1669	1669	1672	158
15°	1596	1598	1610	1619	1628	450
25°	1447	1456	1479	1504	1520	666
35°	1252	1262	1296	1335	1353	782
45°	1021	1030	1067	1113	1133	787
55°	769	781	808	847	866	688
65°	506	515	536	559	572	503
75°	256	261	270	284	293	273
85°	55	55	55	60	62	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1676.1	1676.1	1676.1	1676.1	1676.1
2.5°	1676.1	1673.8	1673.8	1673.8	1676.1
5°	1669.3	1667.0	1669.3	1669.3	1671.5
7.5°	1657.8	1655.5	1660.1	1662.4	1664.7
10°	1641.8	1641.8	1648.6	1653.2	1657.8
12.5°	1621.2	1623.5	1630.3	1637.2	1644.1
15°	1596.0	1598.3	1609.7	1618.9	1628.0
17.5°	1563.9	1568.5	1582.2	1596.0	1605.1
20°	1529.6	1536.4	1552.5	1570.8	1582.2
22.5°	1490.6	1499.8	1518.1	1541.0	1552.5
25°	1447.1	1456.3	1479.2	1504.4	1520.4
27.5°	1401.3	1412.8	1438.0	1467.8	1486.1
30°	1353.3	1364.7	1394.5	1426.5	1444.9
32.5°	1300.6	1314.3	1346.4	1383.0	1401.3
35°	1252.5	1261.7	1296.0	1334.9	1353.3
37.5°	1197.6	1209.0	1241.1	1282.3	1302.9
40°	1138.0	1149.5	1186.1	1227.3	1250.2
42.5°	1080.8	1089.9	1126.6	1172.4	1193.0
45°	1021.2	1030.4	1067.0	1112.8	1133.4
47.5°	959.4	970.9	1005.2	1048.7	1069.3
50°	897.6	906.8	941.1	982.3	1002.9
52.5°	833.5	842.6	874.7	915.9	936.5
55°	769.4	780.8	808.3	847.2	865.5
57.5°	705.3	716.7	741.9	778.5	794.6
60°	641.1	650.3	675.5	707.5	723.6
62.5°	572.4	579.3	604.5	636.6	650.3
65°	506.0	515.2	535.8	558.7	572.4
67.5°	444.2	448.8	467.1	492.3	501.5
70°	380.1	384.7	400.7	421.3	428.2
72.5°	316.0	322.9	334.3	352.6	361.8
75°	256.5	261.0	270.2	283.9	293.1
77.5°	199.2	201.5	208.4	219.8	226.7
80°	144.3	146.5	151.1	160.3	164.9
82.5°	96.2	98.5	100.8	105.3	109.9
85°	55.0	55.0	55.0	59.5	61.8
87.5°	20.6	18.3	18.3	18.3	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)