

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: P383907

Luminaire Tested: **14ID-45-L835-CFR2**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383907
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: 14ID-45-L835-CFR2
Description: 1X4 IN DEPTH TROFFER WITH 2INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

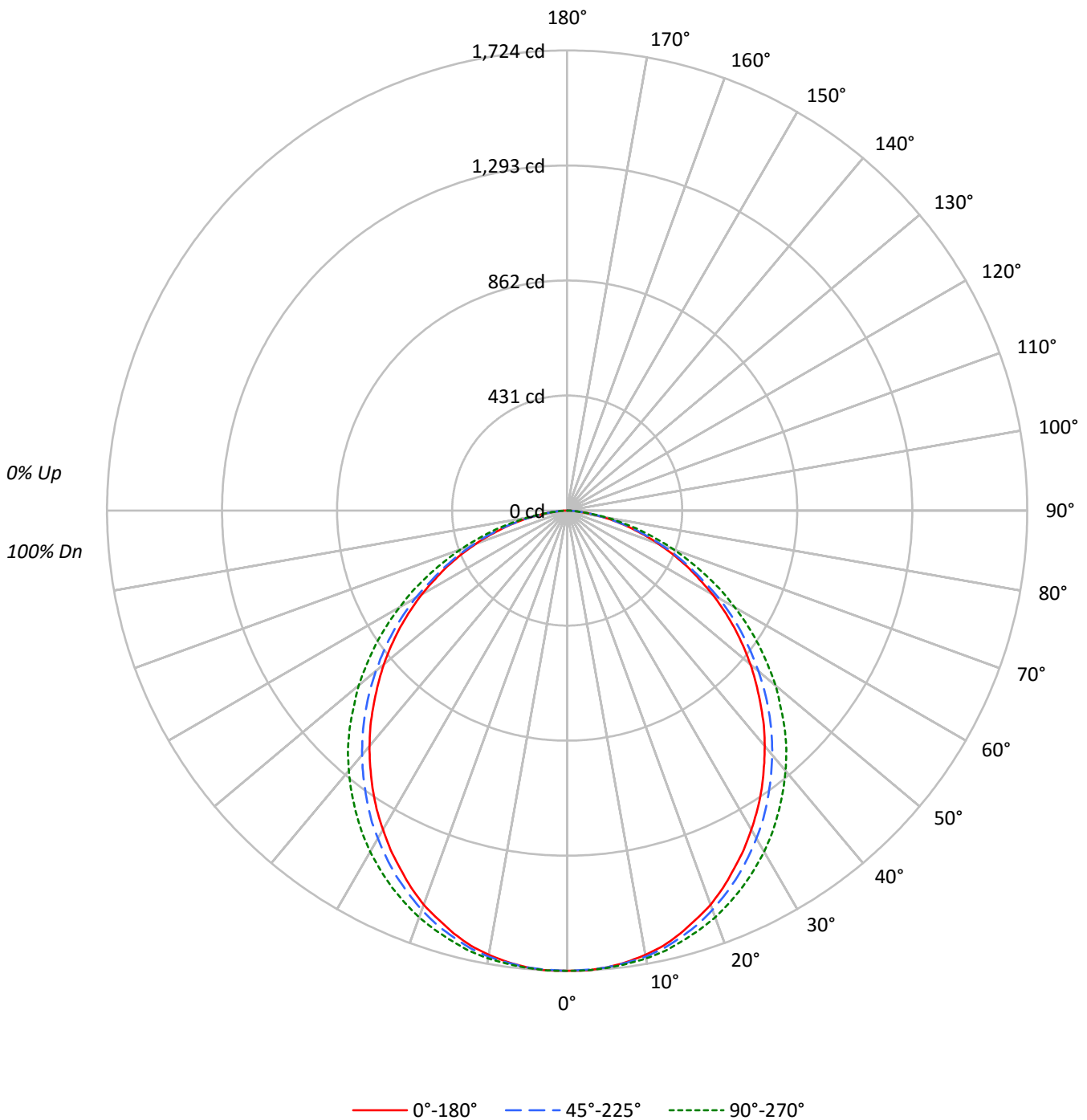
Lumens per Lamp: N/A
Luminaire Lumens: 4552.1 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 38.1
Input Voltage (V): NR
Input Current (Ain): 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	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					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85					85			
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71					71			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60					60			
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52					52			
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39					39			
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31					31			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4640	4640	4640
5°	4640	4640	4646
10°	4618	4637	4656
15°	4569	4607	4652
20°	4501	4559	4644
25°	4395	4490	4619
30°	4288	4408	4586
35°	4174	4308	4533
40°	4046	4199	4471
45°	3897	4071	4384
50°	3753	3915	4268
55°	3585	3745	4109
60°	3388	3535	3904
65°	3152	3253	3645
70°	2854	2961	3338
75°	2490	2585	2917
80°	2015	2050	2298
85°	1198	1337	1127



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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°	518.2	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°	1327.8	29.2
0°-40°	2152.4	47.3
0°-60°	3707.0	81.4
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°	1724	1724	1724	1724	1724	
5°	1718	1715	1718	1718	1720	163
15°	1640	1642	1654	1665	1670	462
25°	1480	1490	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	



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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°	1717.6	1715.3	1717.6	1717.6	1719.8
7.5°	1706.1	1703.9	1708.4	1710.7	1713.0
10°	1690.2	1690.2	1697.0	1701.6	1703.9
12.5°	1669.7	1669.7	1678.8	1685.6	1690.2
15°	1640.0	1642.3	1653.7	1665.1	1669.7
17.5°	1605.8	1612.6	1626.3	1642.3	1646.8
20°	1571.6	1576.1	1592.1	1612.6	1621.8
22.5°	1528.2	1535.1	1553.3	1580.7	1589.8
25°	1480.3	1489.5	1512.3	1541.9	1555.6
27.5°	1432.4	1439.3	1466.6	1500.9	1516.8
30°	1380.0	1389.1	1418.7	1457.5	1475.8
32.5°	1327.5	1334.4	1368.6	1409.6	1430.2
35°	1270.5	1279.6	1311.5	1359.4	1380.0
37.5°	1211.2	1222.6	1254.5	1304.7	1327.5
40°	1151.9	1158.7	1195.2	1245.4	1272.8
42.5°	1090.3	1099.4	1133.6	1188.4	1215.7
45°	1024.1	1035.5	1069.8	1124.5	1151.9
47.5°	960.3	971.7	1003.6	1058.4	1083.4
50°	896.4	903.3	935.2	989.9	1019.6
52.5°	830.3	837.1	866.8	919.2	946.6
55°	764.1	771.0	798.3	850.8	875.9
57.5°	695.7	700.3	727.6	775.5	800.6
60°	629.5	631.8	656.9	700.3	725.3
62.5°	558.8	561.1	579.4	629.5	652.4
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	376.4	406.0	424.3
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)