

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: P385083

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

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385083
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1911-572-72)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 2/25/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14ID-45-L835-CNC
Description: 1X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -
Ballast/Driver: -

Summary

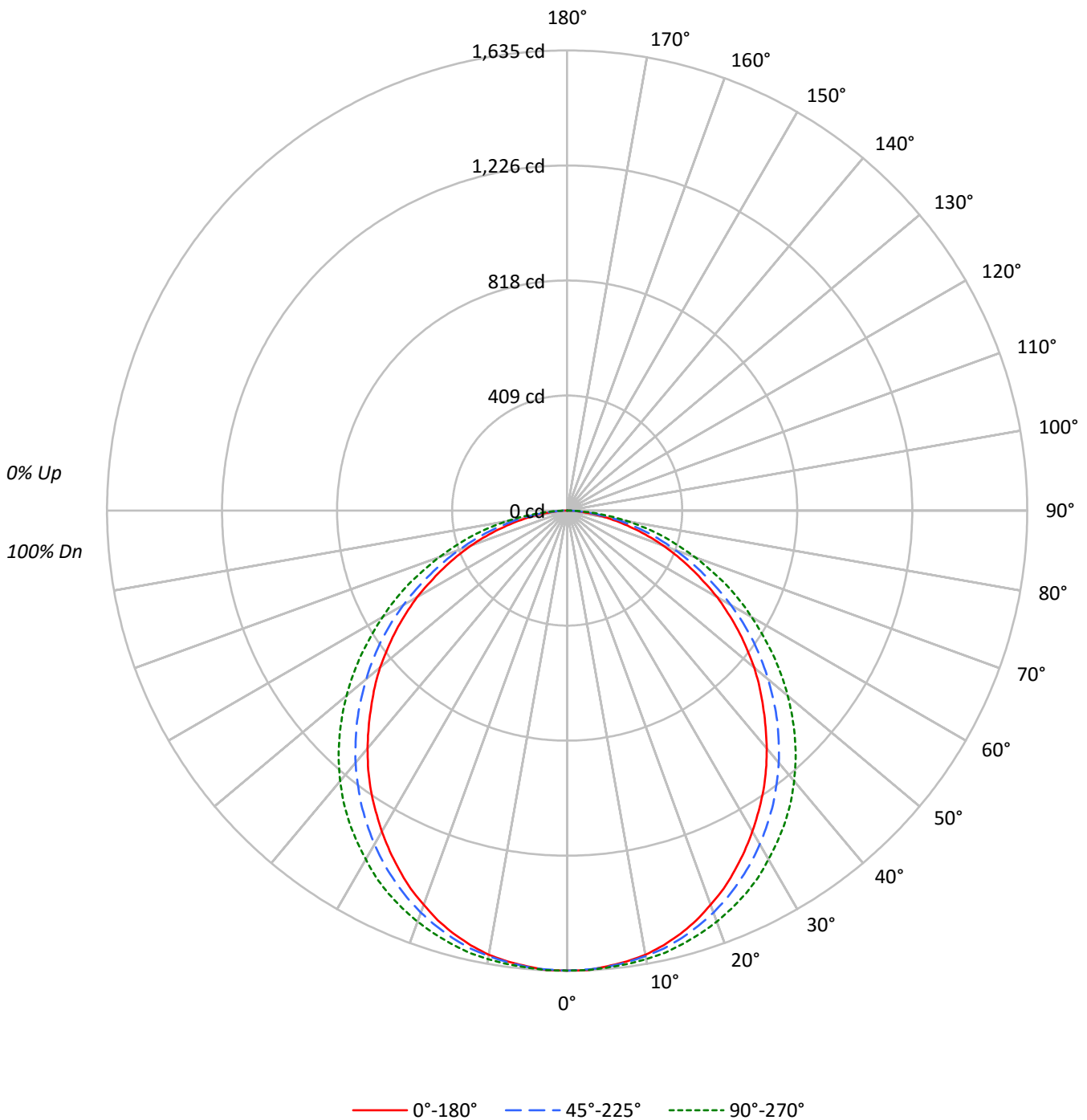
Lumens per Lamp: N/A
Luminaire Lumens: 4538.4 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P385083
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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	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	75	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50
5	76	63	54	48	74	62	54	47	60	52	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4399	4399	4399
5°	4391	4397	4403
10°	4379	4391	4423
15°	4337	4382	4439
20°	4268	4353	4451
25°	4187	4309	4459
30°	4090	4254	4446
35°	3993	4189	4437
40°	3876	4109	4407
45°	3746	4016	4356
50°	3633	3901	4284
55°	3480	3780	4189
60°	3314	3623	4078
65°	3090	3411	3965
70°	2846	3206	3800
75°	2523	2976	3642
80°	2129	2661	3371
85°	1556	2050	2686



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.7	3.4
10°-20°	443.9	9.8
20°-30°	669.5	14.8
30°-40°	799.3	17.6
40°-50°	816.9	18.0
50°-60°	724.3	16.0
60°-70°	540.0	11.9
70°-80°	308.5	6.8
80°-90°	81.4	1.8
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°	1268.1	27.9
0°-40°	2067.4	45.6
0°-60°	3608.6	79.5
0°-90°	4538.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4538.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1635	1635	1635	1635	1635	
5°	1625	1625	1628	1628	1630	154
15°	1557	1561	1573	1586	1593	439
25°	1410	1422	1451	1484	1502	649
35°	1216	1232	1275	1326	1351	759
45°	984	1005	1055	1113	1145	761
55°	742	756	806	863	893	663
65°	485	497	536	591	623	481
75°	243	254	286	330	350	259
85°	50	53	66	82	87	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1634.6	1634.6	1634.6	1634.6	1634.6
2.5°	1634.6	1632.3	1632.3	1632.3	1634.6
5°	1625.4	1625.4	1627.7	1627.7	1630.0
7.5°	1616.3	1616.3	1618.5	1620.8	1625.4
10°	1602.5	1602.5	1607.1	1614.0	1618.5
12.5°	1581.9	1584.2	1593.4	1602.5	1609.4
15°	1556.7	1561.3	1572.8	1586.5	1593.4
17.5°	1527.0	1531.6	1547.6	1565.9	1575.1
20°	1490.3	1499.5	1520.1	1543.0	1554.4
22.5°	1453.7	1462.9	1488.1	1515.5	1529.3
25°	1410.2	1421.7	1451.4	1483.5	1501.8
27.5°	1364.4	1378.2	1412.5	1449.1	1469.7
30°	1316.4	1332.4	1369.0	1410.2	1430.8
32.5°	1266.0	1282.0	1323.2	1369.0	1391.9
35°	1215.6	1231.7	1275.2	1325.5	1350.7
37.5°	1160.7	1176.7	1222.5	1277.4	1304.9
40°	1103.5	1121.8	1169.8	1224.8	1254.5
42.5°	1043.9	1064.5	1112.6	1172.1	1201.9
45°	984.4	1005.0	1055.4	1112.6	1144.7
47.5°	927.2	943.2	993.6	1053.1	1085.1
50°	867.7	881.4	931.8	991.3	1023.3
52.5°	803.6	821.9	869.9	929.5	959.2
55°	741.7	755.5	805.8	863.1	892.8
57.5°	677.6	691.4	739.4	796.7	824.2
60°	615.8	629.6	673.1	730.3	757.8
62.5°	547.1	560.9	604.4	663.9	691.4
65°	485.3	496.8	535.7	590.6	622.7
67.5°	423.5	435.0	471.6	524.3	549.4
70°	361.7	370.9	407.5	455.6	483.0
72.5°	302.2	311.3	348.0	391.5	414.4
75°	242.7	254.1	286.2	329.7	350.3
77.5°	187.7	199.2	226.6	265.6	283.9
80°	137.4	146.5	171.7	201.5	217.5
82.5°	91.6	98.4	116.8	141.9	153.4
85°	50.4	52.7	66.4	82.4	87.0
87.5°	20.6	20.6	25.2	27.5	29.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)