

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: P385191

Luminaire Tested: **24ID-45-L835-CNC**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P385191
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: 24ID-45-L835-CNC
Description: 2X4 IN DEPTH TROFFER WITH CONCAVE LENS

Light Source: -
Ballast/Driver: -

Summary

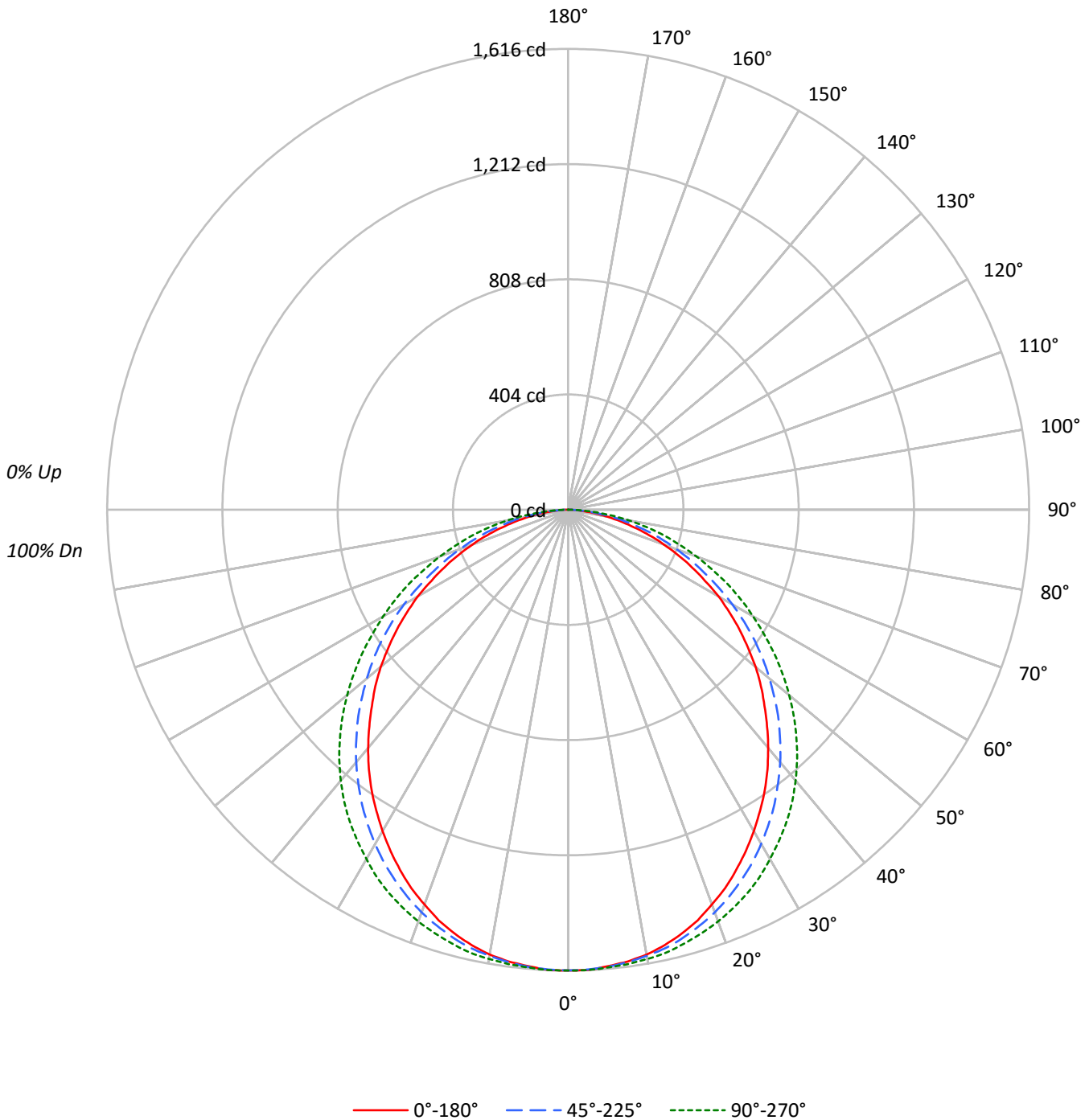
Lumens per Lamp: N/A
Luminaire Lumens: 4486.5 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 40
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	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°	2174	2174	2174
5°	2170	2173	2176
10°	2164	2171	2186
15°	2144	2166	2194
20°	2110	2152	2200
25°	2070	2130	2204
30°	2022	2103	2198
35°	1974	2071	2193
40°	1916	2031	2178
45°	1852	1985	2153
50°	1795	1928	2117
55°	1720	1869	2070
60°	1638	1791	2016
65°	1528	1686	1960
70°	1407	1585	1878
75°	1247	1471	1800
80°	1052	1315	1666
85°	769	1013	1328



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.0	3.4
10°-20°	438.8	9.8
20°-30°	661.8	14.8
30°-40°	790.1	17.6
40°-50°	807.5	18.0
50°-60°	716.1	16.0
60°-70°	533.8	11.9
70°-80°	304.9	6.8
80°-90°	80.4	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°	1253.6	27.9
0°-40°	2043.7	45.6
0°-60°	3567.3	79.5
0°-90°	4486.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4486.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1616	1616	1616	1616	1616	
5°	1607	1607	1609	1609	1611	153
15°	1539	1544	1555	1568	1575	434
25°	1394	1405	1435	1466	1485	642
35°	1202	1218	1261	1310	1335	751
45°	973	994	1043	1100	1132	752
55°	733	747	797	853	883	655
65°	480	491	530	584	616	476
75°	240	251	283	326	346	256
85°	50	52	66	82	86	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1615.9	1615.9	1615.9	1615.9	1615.9
2.5°	1615.9	1613.6	1613.6	1613.6	1615.9
5°	1606.8	1606.8	1609.1	1609.1	1611.4
7.5°	1597.8	1597.8	1600.0	1602.3	1606.8
10°	1584.2	1584.2	1588.7	1595.5	1600.0
12.5°	1563.8	1566.1	1575.1	1584.2	1591.0
15°	1538.9	1543.5	1554.8	1568.4	1575.1
17.5°	1509.5	1514.0	1529.9	1548.0	1557.0
20°	1473.3	1482.4	1502.7	1525.4	1536.7
22.5°	1437.1	1446.1	1471.0	1498.2	1511.8
25°	1394.1	1405.4	1434.8	1466.5	1484.6
27.5°	1348.8	1362.4	1396.4	1432.6	1452.9
30°	1301.3	1317.1	1353.4	1394.1	1414.5
32.5°	1251.5	1267.4	1308.1	1353.4	1376.0
35°	1201.7	1217.6	1260.6	1310.4	1335.3
37.5°	1147.4	1163.3	1208.5	1262.8	1290.0
40°	1090.8	1108.9	1156.5	1210.8	1240.2
42.5°	1032.0	1052.4	1099.9	1158.7	1188.1
45°	973.1	993.5	1043.3	1099.9	1131.6
47.5°	916.6	932.4	982.2	1041.0	1072.7
50°	857.7	871.3	921.1	979.9	1011.6
52.5°	794.4	812.5	860.0	918.8	948.3
55°	733.3	746.8	796.6	853.2	882.6
57.5°	669.9	683.5	731.0	787.6	814.7
60°	608.8	622.4	665.4	721.9	749.1
62.5°	540.9	554.5	597.5	656.3	683.5
65°	479.8	491.1	529.6	583.9	615.6
67.5°	418.7	430.0	466.2	518.3	543.2
70°	357.6	366.6	402.8	450.4	477.5
72.5°	298.7	307.8	344.0	387.0	409.6
75°	239.9	251.2	282.9	325.9	346.3
77.5°	185.6	196.9	224.1	262.5	280.6
80°	135.8	144.8	169.7	199.2	215.0
82.5°	90.5	97.3	115.4	140.3	151.6
85°	49.8	52.1	65.6	81.5	86.0
87.5°	20.4	20.4	24.9	27.2	29.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)