

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: P383843

Luminaire Tested: **24ID-40-L835-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383843
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: 24ID-40-L835-CFR1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

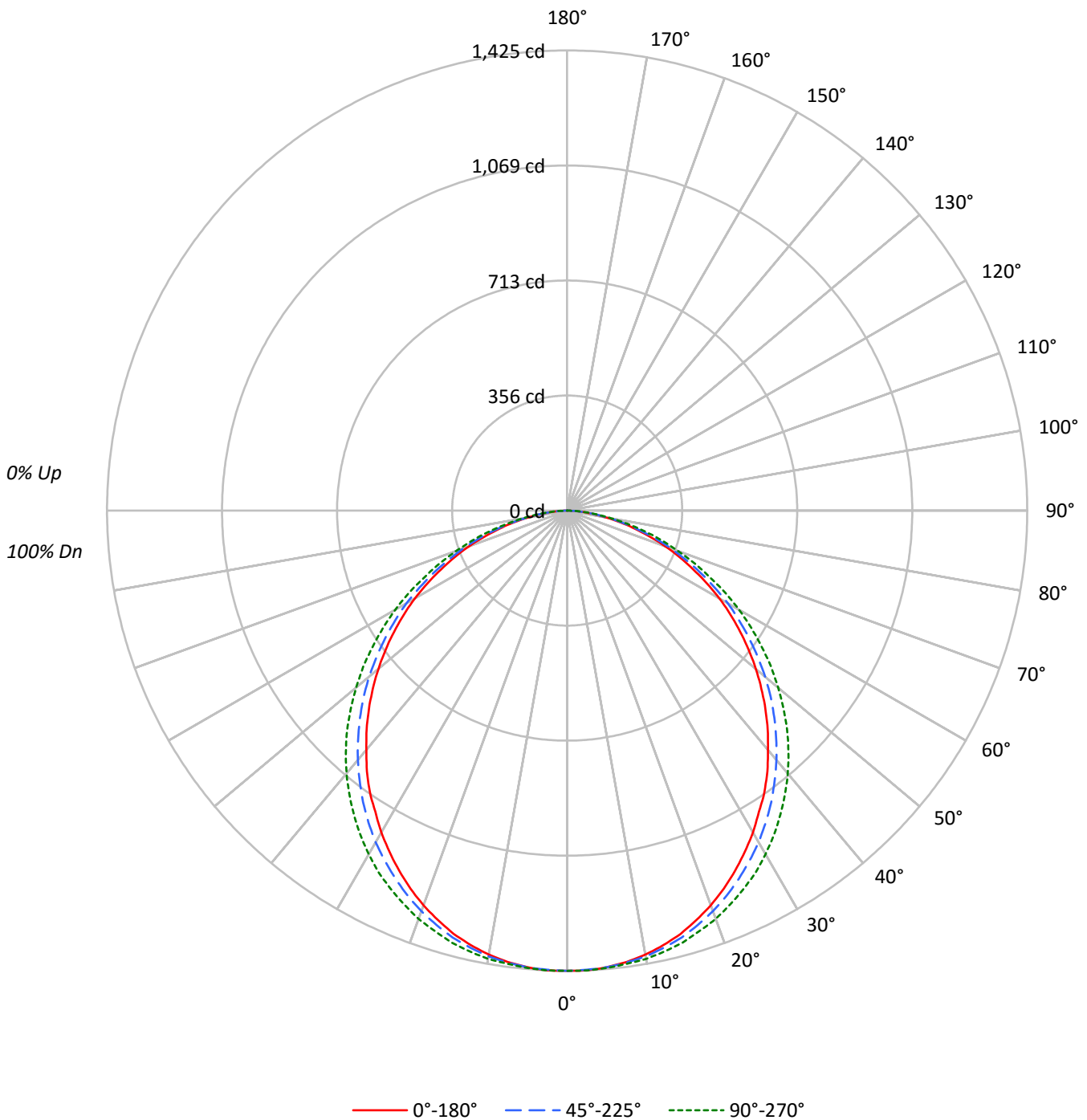
Lumens per Lamp: N/A
Luminaire Lumens: 3870.8 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35.2
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



TEST NUMBER: P383843
CATALOG NUMBER: 24ID-40-L835-CFR1

Luminous Intensity Polar Plot





TEST NUMBER: P383843

CATALOG NUMBER: 24ID-40-L835-CFR1

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°	1918	1918	1918
5°	1917	1917	1920
10°	1907	1915	1926
15°	1890	1907	1928
20°	1862	1890	1926
25°	1827	1867	1919
30°	1788	1842	1909
35°	1749	1810	1890
40°	1700	1772	1867
45°	1652	1726	1834
50°	1598	1675	1785
55°	1535	1612	1727
60°	1467	1546	1656
65°	1370	1450	1550
70°	1271	1340	1432
75°	1134	1195	1295
80°	951	996	1086
85°	721	721	812



TEST NUMBER: P383843

CATALOG NUMBER: 24ID-40-L835-CFR1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.9	3.5
10°-20°	386.0	10.0
20°-30°	580.4	15.0
30°-40°	690.4	17.8
40°-50°	702.5	18.1
50°-60°	618.2	16.0
60°-70°	453.5	11.7
70°-80°	246.2	6.4
80°-90°	58.7	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°	1101.2	28.4
0°-40°	1791.6	46.3
0°-60°	3112.4	80.4
0°-90°	3870.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3870.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1425	1425	1425	1425	1425	
5°	1419	1418	1419	1419	1421	135
15°	1357	1359	1369	1377	1384	382
25°	1231	1238	1258	1279	1293	567
35°	1065	1073	1102	1135	1151	665
45°	868	876	907	946	964	669
55°	654	664	687	720	736	585
65°	430	438	456	475	487	428
75°	218	222	230	241	249	232
85°	47	47	47	51	53	56
90°	0	0	0	0	0	



TEST NUMBER: P383843

CATALOG NUMBER: 24ID-40-L835-CFR1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1425.3	1425.3	1425.3	1425.3	1425.3
2.5°	1425.3	1423.3	1423.3	1423.3	1425.3
5°	1419.4	1417.5	1419.4	1419.4	1421.4
7.5°	1409.7	1407.7	1411.6	1413.6	1415.5
10°	1396.1	1396.1	1401.9	1405.8	1409.7
12.5°	1378.5	1380.5	1386.3	1392.2	1398.0
15°	1357.1	1359.1	1368.8	1376.6	1384.4
17.5°	1329.9	1333.7	1345.4	1357.1	1364.9
20°	1300.6	1306.5	1320.1	1335.7	1345.4
22.5°	1267.5	1275.3	1290.9	1310.4	1320.1
25°	1230.6	1238.3	1257.8	1279.2	1292.9
27.5°	1191.6	1201.3	1222.8	1248.1	1263.7
30°	1150.7	1160.5	1185.8	1213.0	1228.6
32.5°	1105.9	1117.6	1144.9	1176.0	1191.6
35°	1065.1	1072.8	1102.0	1135.1	1150.7
37.5°	1018.3	1028.1	1055.3	1090.4	1107.9
40°	967.7	977.4	1008.6	1043.6	1063.1
42.5°	919.0	926.8	958.0	996.9	1014.4
45°	868.4	876.2	907.3	946.3	963.8
47.5°	815.8	825.6	854.8	891.8	909.3
50°	763.3	771.0	800.2	835.3	852.8
52.5°	708.7	716.5	743.8	778.8	796.4
55°	654.2	664.0	687.3	720.4	736.0
57.5°	599.7	609.4	630.9	662.0	675.6
60°	545.2	553.0	574.4	601.6	615.3
62.5°	486.8	492.6	514.0	541.3	553.0
65°	430.3	438.1	455.6	475.1	486.8
67.5°	377.7	381.6	397.2	418.6	426.4
70°	323.2	327.1	340.7	358.3	364.1
72.5°	268.7	274.5	284.3	299.8	307.6
75°	218.1	222.0	229.8	241.4	249.2
77.5°	169.4	171.3	177.2	186.9	192.8
80°	122.7	124.6	128.5	136.3	140.2
82.5°	81.8	83.7	85.7	89.6	93.5
85°	46.7	46.7	46.7	50.6	52.6
87.5°	17.5	15.6	15.6	15.6	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)