

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: P383841

Luminaire Tested: **24ID-35-L850-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383841
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-35-L850-CFR1
Description: 2X4 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

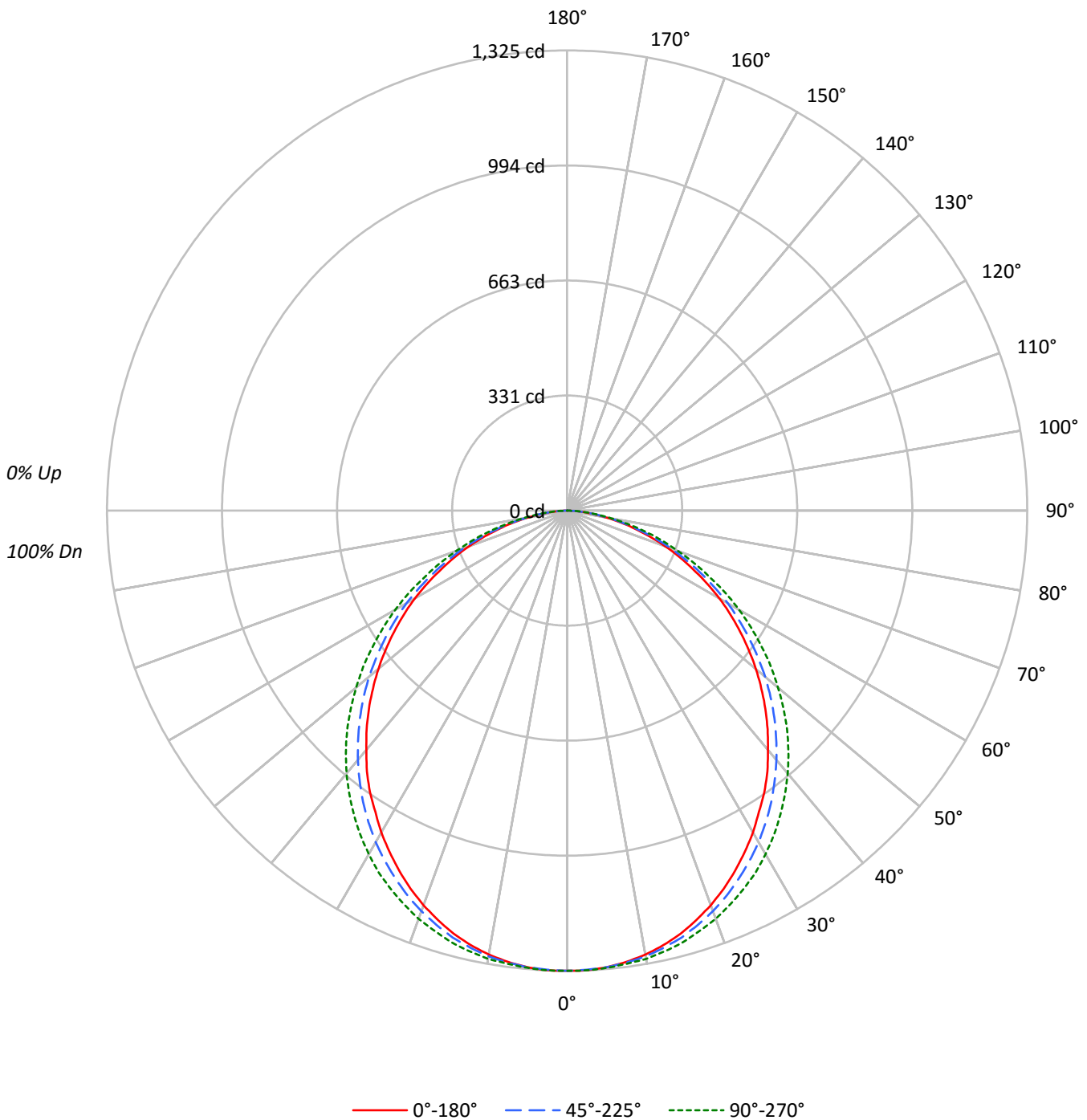
Lumens per Lamp: N/A
Luminaire Lumens: 3598.8 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 30.2
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: P383841
CATALOG NUMBER: 24ID-35-L850-CFR1

Luminous Intensity Polar Plot





TEST NUMBER: P383841

CATALOG NUMBER: 24ID-35-L850-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°	1783	1783	1783
5°	1782	1782	1785
10°	1773	1781	1791
15°	1757	1773	1793
20°	1732	1757	1791
25°	1699	1736	1784
30°	1662	1713	1775
35°	1626	1683	1757
40°	1580	1647	1736
45°	1536	1605	1705
50°	1485	1557	1660
55°	1427	1499	1605
60°	1364	1437	1539
65°	1274	1349	1441
70°	1182	1246	1332
75°	1054	1110	1205
80°	883	926	1010
85°	670	670	755



TEST NUMBER: P383841

CATALOG NUMBER: 24ID-35-L850-CFR1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.4	3.5
10°-20°	358.9	10.0
20°-30°	539.6	15.0
30°-40°	641.9	17.8
40°-50°	653.1	18.1
50°-60°	574.8	16.0
60°-70°	421.7	11.7
70°-80°	228.9	6.4
80°-90°	54.6	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°	1023.9	28.4
0°-40°	1665.7	46.3
0°-60°	2893.7	80.4
0°-90°	3598.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3598.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1325	1325	1325	1325	1325	
5°	1320	1318	1320	1320	1322	125
15°	1262	1264	1273	1280	1287	355
25°	1144	1151	1169	1189	1202	527
35°	990	998	1025	1055	1070	618
45°	807	815	844	880	896	622
55°	608	617	639	670	684	544
65°	400	407	424	442	453	398
75°	203	206	214	224	232	215
85°	43	43	43	47	49	52
90°	0	0	0	0	0	



TEST NUMBER: P383841

CATALOG NUMBER: 24ID-35-L850-CFR1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1325.1	1325.1	1325.1	1325.1	1325.1
2.5°	1325.1	1323.3	1323.3	1323.3	1325.1
5°	1319.7	1317.9	1319.7	1319.7	1321.5
7.5°	1310.6	1308.8	1312.4	1314.2	1316.1
10°	1298.0	1298.0	1303.4	1307.0	1310.6
12.5°	1281.7	1283.5	1288.9	1294.3	1299.8
15°	1261.7	1263.6	1272.6	1279.9	1287.1
17.5°	1236.4	1240.0	1250.9	1261.7	1269.0
20°	1209.3	1214.7	1227.4	1241.8	1250.9
22.5°	1178.5	1185.7	1200.2	1218.3	1227.4
25°	1144.1	1151.3	1169.4	1189.3	1202.0
27.5°	1107.9	1116.9	1136.8	1160.4	1174.9
30°	1069.9	1078.9	1102.4	1127.8	1142.3
32.5°	1028.2	1039.1	1064.4	1093.4	1107.9
35°	990.2	997.5	1024.6	1055.4	1069.9
37.5°	946.8	955.8	981.2	1013.7	1030.0
40°	899.7	908.7	937.7	970.3	988.4
42.5°	854.4	861.7	890.6	926.9	943.1
45°	807.4	814.6	843.6	879.8	896.1
47.5°	758.5	767.5	794.7	829.1	845.4
50°	709.6	716.9	744.0	776.6	792.9
52.5°	658.9	666.2	691.5	724.1	740.4
55°	608.2	617.3	639.0	669.8	684.3
57.5°	557.6	566.6	586.5	615.5	628.2
60°	506.9	514.1	534.0	559.4	572.0
62.5°	452.6	458.0	477.9	503.3	514.1
65°	400.1	407.3	423.6	441.7	452.6
67.5°	351.2	354.8	369.3	389.2	396.4
70°	300.5	304.1	316.8	333.1	338.5
72.5°	249.8	255.2	264.3	278.8	286.0
75°	202.7	206.4	213.6	224.5	231.7
77.5°	157.5	159.3	164.7	173.8	179.2
80°	114.0	115.9	119.5	126.7	130.3
82.5°	76.0	77.8	79.7	83.3	86.9
85°	43.4	43.4	43.4	47.1	48.9
87.5°	16.3	14.5	14.5	14.5	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)