

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: P383833

Luminaire Tested: **22ID-90-L850-CFR1**

Issue Date: 2/25/2020

Test Information

Test Method: LM-79-08
Report Number: P383833
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: 22ID-90-L850-CFR1
Description: 2X2 IN DEPTH TROFFER WITH 1INCH RECESSED COFFER LENS

Light Source: -
Ballast/Driver: -

Summary

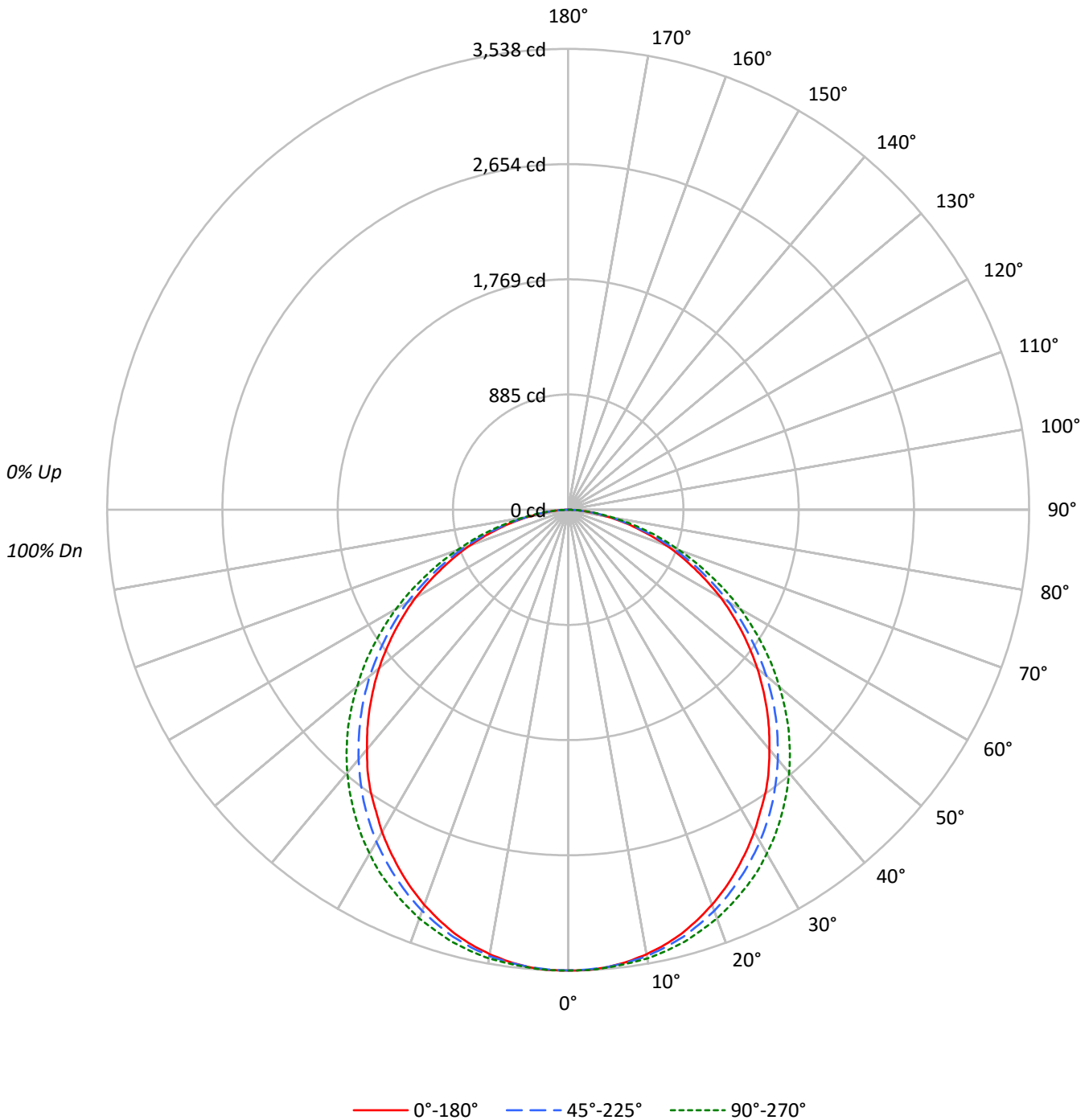
Lumens per Lamp: N/A
Luminaire Lumens: 9608.1 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 85.5
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: P383833
CATALOG NUMBER: 22ID-90-L850-CFR1

Luminous Intensity Polar Plot





TEST NUMBER: P383833

CATALOG NUMBER: 22ID-90-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°	9520	9520	9520
5°	9517	9517	9530
10°	9469	9509	9561
15°	9385	9465	9573
20°	9245	9384	9564
25°	9069	9270	9528
30°	8875	9146	9476
35°	8685	8986	9383
40°	8438	8794	9270
45°	8203	8571	9105
50°	7931	8316	8862
55°	7619	8004	8571
60°	7283	7673	8219
65°	6801	7201	7694
70°	6312	6655	7111
75°	5628	5929	6432
80°	4719	4943	5393
85°	3582	3582	4029



TEST NUMBER: P383833

CATALOG NUMBER: 22ID-90-L850-CFR1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.8	3.5
10°-20°	958.1	10.0
20°-30°	1440.6	15.0
30°-40°	1713.7	17.8
40°-50°	1743.7	18.1
50°-60°	1534.6	16.0
60°-70°	1125.7	11.7
70°-80°	611.0	6.4
80°-90°	145.8	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°	2733.5	28.4
0°-40°	4447.2	46.3
0°-60°	7725.6	80.4
0°-90°	9608.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9608.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3538	3538	3538	3538	3538	
5°	3523	3518	3523	3523	3528	334
15°	3369	3374	3398	3417	3436	949
25°	3054	3074	3122	3175	3209	1407
35°	2644	2663	2736	2818	2856	1651
45°	2156	2175	2252	2349	2392	1662
55°	1624	1648	1706	1788	1827	1452
65°	1068	1087	1131	1179	1208	1062
75°	541	551	570	599	619	575
85°	116	116	116	126	130	140
90°	0	0	0	0	0	



TEST NUMBER: P383833

CATALOG NUMBER: 22ID-90-L850-CFR1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3537.8	3537.8	3537.8	3537.8	3537.8
2.5°	3537.8	3532.9	3532.9	3532.9	3537.8
5°	3523.3	3518.4	3523.3	3523.3	3528.1
7.5°	3499.1	3494.3	3504.0	3508.8	3513.6
10°	3465.3	3465.3	3479.8	3489.5	3499.1
12.5°	3421.8	3426.6	3441.1	3455.6	3470.1
15°	3368.6	3373.5	3397.6	3417.0	3436.3
17.5°	3301.0	3310.6	3339.6	3368.6	3388.0
20°	3228.5	3243.0	3276.8	3315.5	3339.6
22.5°	3146.3	3165.6	3204.3	3252.6	3276.8
25°	3054.5	3073.8	3122.1	3175.3	3209.1
27.5°	2957.8	2982.0	3035.1	3098.0	3136.6
30°	2856.3	2880.5	2943.3	3011.0	3049.6
32.5°	2745.2	2774.2	2841.8	2919.2	2957.8
35°	2643.7	2663.0	2735.5	2817.7	2856.3
37.5°	2527.7	2551.8	2619.5	2706.5	2750.0
40°	2402.0	2426.2	2503.5	2590.5	2638.8
42.5°	2281.2	2300.5	2377.9	2474.5	2518.0
45°	2155.5	2174.9	2252.2	2348.9	2392.4
47.5°	2025.0	2049.2	2121.7	2213.5	2257.0
50°	1894.5	1913.9	1986.4	2073.4	2116.9
52.5°	1759.2	1778.6	1846.2	1933.2	1976.7
55°	1623.9	1648.1	1706.1	1788.2	1826.9
57.5°	1488.6	1512.7	1565.9	1643.2	1677.1
60°	1353.2	1372.6	1425.7	1493.4	1527.2
62.5°	1208.3	1222.8	1275.9	1343.6	1372.6
65°	1068.1	1087.4	1130.9	1179.3	1208.3
67.5°	937.6	947.3	985.9	1039.1	1058.4
70°	802.3	811.9	845.8	889.3	903.8
72.5°	667.0	681.5	705.6	744.3	763.6
75°	541.3	551.0	570.3	599.3	618.6
77.5°	420.5	425.3	439.8	464.0	478.5
80°	304.5	309.3	319.0	338.3	348.0
82.5°	203.0	207.8	212.7	222.3	232.0
85°	116.0	116.0	116.0	125.7	130.5
87.5°	43.5	38.7	38.7	38.7	38.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)