

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P572125

Luminaire Tested: 24ID-25-L830-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572125
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2109-397-8)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24ID-25-L830-DBD
Description: 2500 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

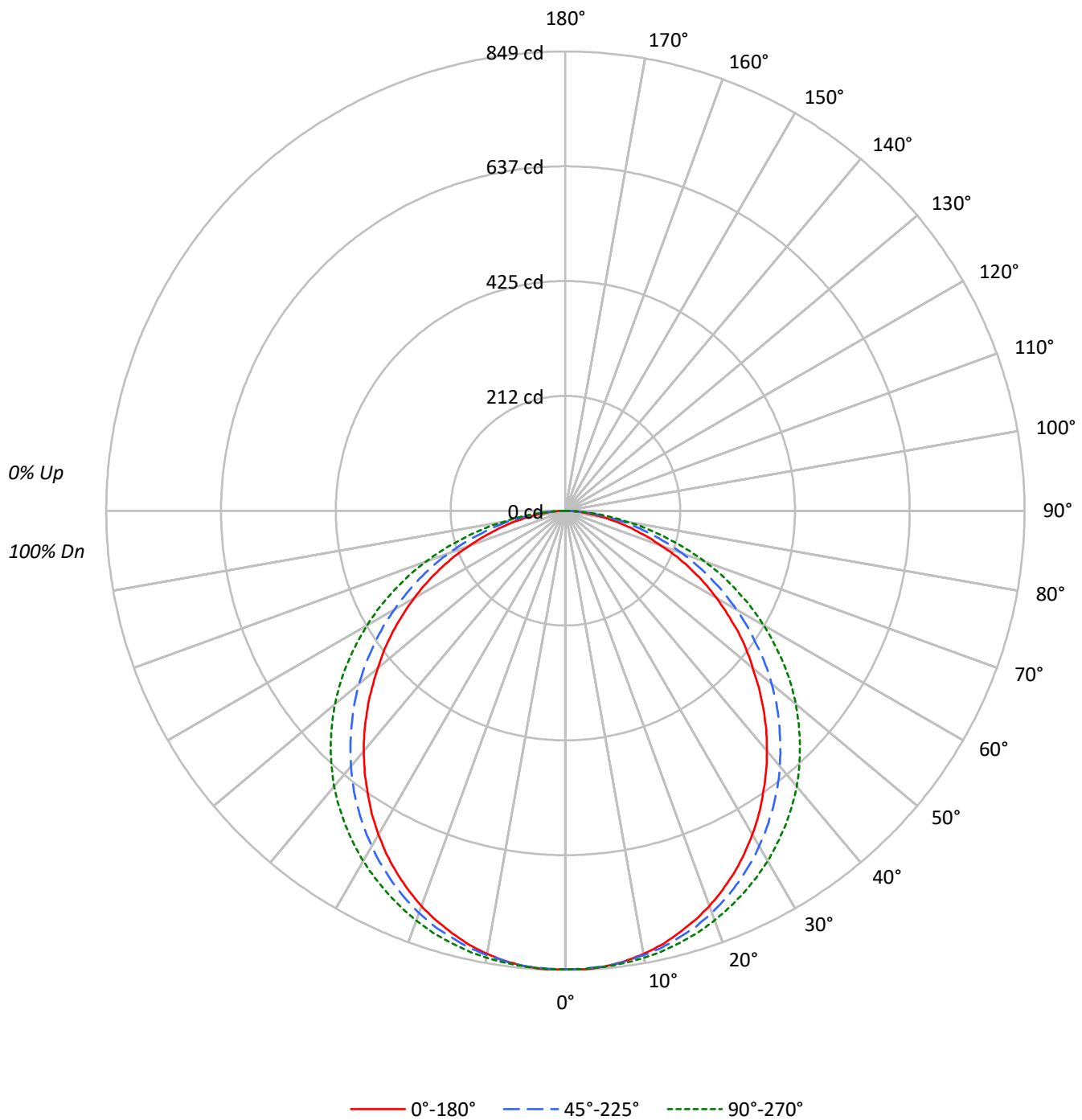
Lumens per Lamp: N/A
Luminaire Lumens: 2419.0 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 21.4
Input Voltage (V):
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: 24 FT

TEST NUMBER: P572125

CATALOG NUMBER: 24ID-25-L830-DBD

Luminous Intensity Polar Plot



TEST NUMBER: P572125

CATALOG NUMBER: 24ID-25-L830-DBD

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20					20				20
RC	80				70				50					30				10
RW	70	50	30	10	70	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		100
1	109	104	100	96	106	102	98	94	97	94	91			93	91	88		84
2	99	90	84	78	96	89	82	77	85	80	75			82	77	73		70
3	90	79	71	65	87	78	70	64	75	68	63			72	66	62		58
4	82	70	61	55	80	69	61	54	66	59	54			64	58	53		50
5	76	63	54	47	74	62	53	47	59	52	46			58	51	46		43
6	70	56	47	41	68	56	47	41	54	46	40			52	45	40		38
7	65	51	42	36	63	50	42	36	49	41	36			47	41	36		33
8	60	47	38	32	59	46	38	32	45	37	32			43	37	32		30
9	56	43	35	29	55	42	34	29	41	34	29			40	33	29		27
10	53	40	32	26	52	39	31	26	38	31	26			37	31	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1141	1141	1141
5°	1138	1133	1135
10°	1129	1123	1130
15°	1114	1111	1125
20°	1097	1098	1120
25°	1076	1080	1114
30°	1049	1059	1109
35°	1017	1035	1101
40°	984	1008	1092
45°	945	978	1078
50°	902	943	1059
55°	862	899	1032
60°	809	852	995
65°	749	796	945
70°	664	725	874
75°	573	624	767
80°	454	507	600
85°	313	314	361

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1078 cd/sqm

TEST NUMBER: P572125

CATALOG NUMBER: 24ID-25-L830-DBD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.4	3.3
10°-20°	230.6	9.5
20°-30°	349.6	14.5
30°-40°	420.5	17.4
40°-50°	434.1	17.9
50°-60°	390.1	16.1
60°-70°	297.0	12.3
70°-80°	170.5	7.1
80°-90°	46.0	1.9
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°	660.6	27.3
0°-40°	1081.2	44.7
0°-60°	1905.4	78.8
0°-90°	2419.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2419.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	848	848	848	848	848	
5°	846	846	846	845	846	80
15°	809	812	816	822	826	228
25°	739	746	757	773	780	340
35°	637	648	669	698	710	399
45°	518	529	559	598	614	399
55°	389	400	432	474	492	347
65°	256	268	297	332	350	254
75°	127	139	160	182	194	135
85°	30	35	41	43	46	35
90°	0	0	0	0	0	

TEST NUMBER: P572125

CATALOG NUMBER: 24ID-25-L830-DBD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	847.9	847.9	847.9	847.9	847.9
2.5°	848.7	848.7	847.1	846.3	847.9
5°	845.5	846.3	845.5	844.7	846.3
7.5°	840.0	840.8	840.8	841.6	843.2
10°	832.2	833.7	834.5	836.9	839.2
12.5°	821.9	823.5	826.7	830.6	833.7
15°	808.6	812.5	816.4	821.9	825.9
17.5°	794.4	799.1	805.4	812.5	817.2
20°	777.9	783.4	791.3	800.7	806.2
22.5°	759.0	766.1	775.5	787.3	793.6
25°	738.6	745.6	757.4	773.2	779.5
27.5°	715.8	723.6	737.8	755.9	764.5
30°	691.4	700.0	716.5	738.6	748.0
32.5°	665.4	674.9	693.7	718.9	729.1
35°	637.1	648.1	669.4	698.5	709.5
37.5°	609.6	620.6	644.2	675.6	688.2
40°	579.7	591.5	616.7	651.3	665.4
42.5°	549.8	560.0	588.3	625.3	640.2
45°	517.5	529.3	559.2	597.8	613.5
47.5°	485.3	497.9	529.3	568.7	585.2
50°	452.3	465.6	497.9	538.0	556.1
52.5°	421.6	432.6	465.6	506.5	525.4
55°	389.3	399.6	431.8	473.5	492.4
57.5°	355.5	367.3	399.6	438.9	457.8
60°	322.5	334.3	365.0	404.3	423.2
62.5°	290.2	301.2	331.1	368.9	387.8
65°	256.4	268.2	297.3	331.9	350.0
67.5°	223.4	236.0	263.5	295.0	313.8
70°	188.0	202.1	228.9	258.0	272.9
72.5°	156.5	169.9	194.3	220.2	234.4
75°	127.4	139.2	159.7	182.5	193.5
77.5°	98.3	110.9	129.0	146.3	154.9
80°	72.4	84.2	98.3	110.1	114.0
82.5°	49.6	58.2	68.4	74.7	80.2
85°	29.9	34.6	40.9	43.3	45.6
87.5°	12.6	14.2	16.5	15.7	16.5
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P572125
CATALOG NUMBER: 24ID-25-L830-DBD

CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	11.06	12.71	11.43	13.02	13.33	12.53	14.17	12.90	14.49	14.80
	3H	12.63	14.12	13.01	14.44	14.80	14.43	15.92	14.81	16.24	16.60
	4H	13.15	14.55	13.55	14.90	15.27	15.13	16.53	15.53	16.88	17.26
	6H	13.48	14.78	13.89	15.14	15.53	15.63	16.92	16.04	17.29	17.68
	8H	13.56	14.80	13.98	15.19	15.59	15.77	17.01	16.19	17.40	17.80
	12H	13.60	14.79	14.03	15.17	15.60	15.85	17.04	16.28	17.42	17.85
4H	2H	11.82	13.22	12.21	13.56	13.94	12.99	14.39	13.38	14.73	15.11
	3H	13.58	14.76	13.99	15.16	15.56	15.10	16.28	15.51	16.67	17.07
	4H	14.21	15.27	14.64	15.68	16.12	15.93	17.00	16.37	17.41	17.85
	6H	14.64	15.57	15.09	16.01	16.47	16.56	17.49	17.01	17.93	18.38
	8H	14.76	15.63	15.22	16.07	16.53	16.75	17.62	17.21	18.06	18.52
	12H	14.82	15.61	15.30	16.08	16.55	16.86	17.64	17.34	18.12	18.59
8H	4H	14.59	15.46	15.05	15.90	16.37	16.13	17.00	16.59	17.44	17.91
	6H	15.13	15.85	15.62	16.34	16.81	16.85	17.58	17.35	18.06	18.54
	8H	15.30	15.95	15.80	16.45	16.94	17.10	17.75	17.61	18.25	18.74
	12H	15.41	15.98	15.91	16.47	17.03	17.27	17.85	17.78	18.34	18.90
12H	4H	14.64	15.42	15.12	15.90	16.37	16.14	16.92	16.62	17.39	17.86
	6H	15.20	15.85	15.71	16.36	16.84	16.87	17.52	17.38	18.03	18.51
	8H	15.42	15.99	15.93	16.48	17.04	17.16	17.74	17.67	18.23	18.79