

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: NEO-RAY

Report Number: P242261

Luminaire Tested: **S122DR-S485D835-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242261
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DR-S485D835-X4F0-XX-UDD-F-W
Description: DEFINE 2 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1899.8 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular (W 0.15' x L: 3.88' x H: 0')
CIE Type: Direct

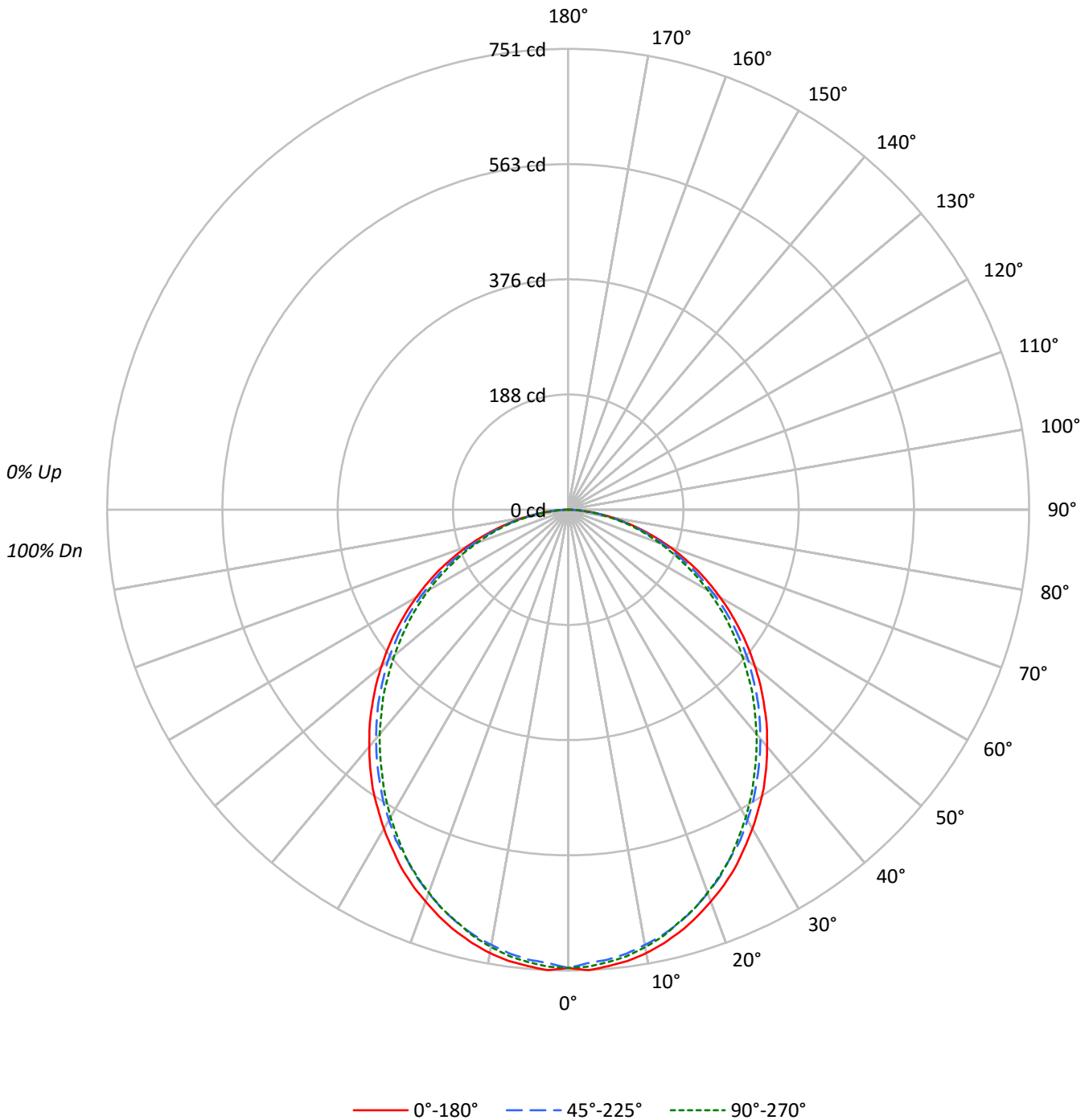
Input Watts (W): 18.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P242261

CATALOG NUMBER: S122DR-S485D835-X4F0-XX-UDD-F-W

Luminous Intensity Polar Plot





TEST NUMBER: P242261

CATALOG NUMBER: S122DR-S485D835-X4F0-XX-UDD-F-W

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	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	49	75	63	55	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14223	14223	14223
5°	14277	14073	14155
10°	14193	13930	13999
15°	14017	13749	13735
20°	13770	13478	13463
25°	13522	13144	13144
30°	13203	12840	12728
35°	12905	12473	12289
40°	12534	12104	11873
45°	12165	11739	11451
50°	11767	11361	10958
55°	11351	10922	10514
60°	10888	10396	10011
65°	10389	9870	9415
70°	9757	9239	8799
75°	8876	8508	8294
80°	7876	7635	7251
85°	6425	6119	5486



TEST NUMBER: P242261

CATALOG NUMBER: S122DR-S485D835-X4F0-XX-UDD-F-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.3	3.7
10°-20°	197.7	10.4
20°-30°	290.6	15.3
30°-40°	337.5	17.8
40°-50°	337.1	17.7
50°-60°	293.9	15.5
60°-70°	217.3	11.4
70°-80°	122.9	6.5
80°-90°	32.4	1.7
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°	558.6	29.4
0°-40°	896.1	47.2
0°-60°	1527.2	80.4
0°-90°	1899.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1899.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	747	747	747	747	747	
5°	747	744	736	742	740	71
15°	711	706	697	700	696	200
25°	643	638	625	627	625	296
35°	555	548	536	532	528	347
45°	452	447	436	428	425	349
55°	342	338	329	320	317	306
65°	230	226	219	212	209	228
75°	121	119	116	111	113	129
85°	29	29	28	26	25	35
90°	0	0	0	0	0	



TEST NUMBER: P242261

CATALOG NUMBER: S122DR-S485D835-X4F0-XX-UDD-F-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	746.7	746.7	746.7	746.7	746.7
2.5°	751.1	747.5	739.6	746.7	745.3
5°	746.7	743.9	736.0	741.7	740.3
7.5°	741.7	737.4	729.5	735.3	733.8
10°	733.8	728.8	720.2	725.9	723.8
12.5°	723.1	718.7	710.1	713.7	712.3
15°	710.8	706.5	697.2	700.1	696.5
17.5°	695.8	691.5	682.1	685.7	682.1
20°	679.3	674.9	664.9	667.0	664.2
22.5°	662.7	656.3	646.9	646.9	645.5
25°	643.4	637.6	625.4	626.8	625.4
27.5°	621.8	616.8	607.5	605.3	601.7
30°	600.3	594.5	583.8	581.6	578.7
32.5°	577.3	573.0	561.5	557.2	554.3
35°	555.0	547.9	536.4	532.1	528.5
37.5°	529.9	523.4	512.0	506.9	503.3
40°	504.1	498.3	486.8	480.4	477.5
42.5°	478.9	473.2	461.7	454.5	450.2
45°	451.6	446.6	435.8	427.9	425.1
47.5°	425.1	420.0	408.6	400.7	396.4
50°	397.1	393.5	383.4	373.4	369.8
52.5°	369.8	364.8	355.4	347.5	342.5
55°	341.8	337.5	328.9	320.2	316.6
57.5°	313.8	310.2	300.9	292.2	289.4
60°	285.8	282.9	272.9	265.0	262.8
62.5°	258.5	253.5	246.3	239.1	236.2
65°	230.5	226.2	219.0	212.5	208.9
67.5°	201.8	198.2	191.7	186.7	183.8
70°	175.2	172.3	165.9	160.8	158.0
72.5°	147.9	145.0	141.5	136.4	134.3
75°	120.6	119.2	115.6	111.3	112.7
77.5°	96.2	93.3	91.9	89.8	87.6
80°	71.8	71.1	69.6	67.5	66.1
82.5°	48.8	48.8	48.1	45.2	45.2
85°	29.4	28.7	28.0	25.8	25.1
87.5°	12.9	11.5	10.1	7.9	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)