

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: P242772

Luminaire Tested: **S125DR-S610D830-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242772
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DR-S610D830-X4F0-XX-UDD-F-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2226.5 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular (W 0.39' x L: 3.88' x H: 0')
CIE Type: Direct

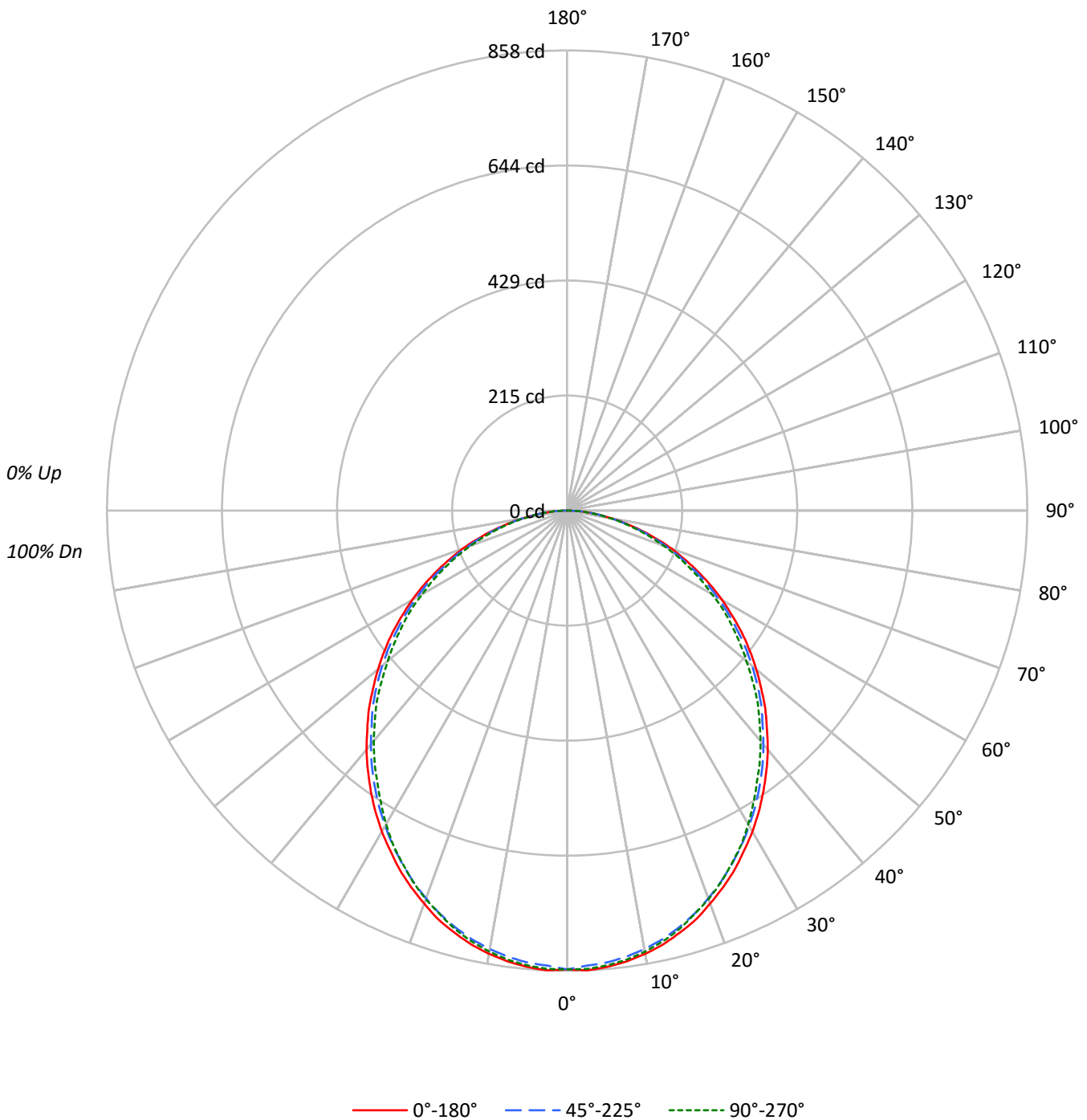
Input Watts (W): 18.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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	94	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	59
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	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6080	6080	6080
5°	6094	6036	6074
10°	6056	5993	6027
15°	5991	5921	5946
20°	5896	5820	5830
25°	5795	5700	5695
30°	5671	5571	5543
35°	5537	5431	5355
40°	5400	5281	5205
45°	5252	5142	5041
50°	5088	4977	4826
55°	4930	4788	4654
60°	4742	4598	4435
65°	4519	4371	4223
70°	4304	4106	3965
75°	3921	3792	3661
80°	3491	3434	3352
85°	3034	3091	2928



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.7	3.6
10°-20°	228.0	10.2
20°-30°	336.6	15.1
30°-40°	392.7	17.6
40°-50°	394.5	17.7
50°-60°	346.2	15.6
60°-70°	257.9	11.6
70°-80°	147.3	6.6
80°-90°	42.5	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°	645.3	29.0
0°-40°	1038.1	46.6
0°-60°	1778.8	79.9
0°-90°	2226.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2226.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	855	855	855	855	855	
5°	854	853	846	852	851	81
15°	814	812	805	808	808	230
25°	739	736	727	728	726	340
35°	638	636	626	623	617	399
45°	522	520	512	504	502	403
55°	398	396	386	380	376	355
65°	269	267	260	254	251	266
75°	143	141	138	136	133	152
85°	37	38	38	37	36	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	855.4	855.4	855.4	855.4	855.4
2.5°	858.1	856.1	849.3	856.1	855.4
5°	854.1	852.7	846.0	852.1	851.4
7.5°	848.0	846.6	839.2	845.3	844.6
10°	839.2	837.8	830.4	835.8	835.1
12.5°	828.4	825.7	818.9	823.0	823.0
15°	814.2	812.1	804.7	808.1	808.1
17.5°	799.3	795.9	788.4	792.5	789.1
20°	779.6	778.3	769.5	774.2	770.8
22.5°	760.0	757.3	749.2	751.9	749.9
25°	739.0	735.6	726.9	728.2	726.2
27.5°	714.7	712.6	703.8	704.5	702.5
30°	691.0	689.0	678.8	677.4	675.4
32.5°	665.3	661.9	653.1	650.4	646.3
35°	638.2	635.5	626.0	622.6	617.2
37.5°	610.4	607.1	598.3	593.5	590.1
40°	582.0	578.6	569.2	563.1	561.0
42.5°	551.6	548.9	539.4	534.0	530.6
45°	522.5	519.8	511.6	503.5	501.5
47.5°	490.7	491.3	481.2	473.1	468.3
50°	460.2	458.2	450.1	441.3	436.5
52.5°	429.1	427.7	418.9	411.5	406.1
55°	397.9	395.9	386.4	380.3	375.6
57.5°	364.8	364.1	356.0	347.9	345.8
60°	333.6	330.9	323.5	316.7	312.0
62.5°	301.2	299.1	293.0	285.6	282.2
65°	268.7	267.3	259.9	253.8	251.1
67.5°	236.9	234.2	228.7	223.3	222.0
70°	207.1	203.7	197.6	193.6	190.8
72.5°	174.6	172.6	169.2	164.5	161.7
75°	142.8	141.4	138.1	136.0	133.3
77.5°	113.0	112.3	110.3	109.0	106.9
80°	85.3	85.3	83.9	83.2	81.9
82.5°	60.9	59.6	59.6	58.2	58.2
85°	37.2	37.9	37.9	37.2	35.9
87.5°	18.3	18.3	17.6	17.6	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)