

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: P242768

Luminaire Tested: **S125DR-S850D927-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242768
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-S850D927-X4F0-XX-UDD-F-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2606.2 lumens
Efficiency: N/A
Efficacy: 98.7 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

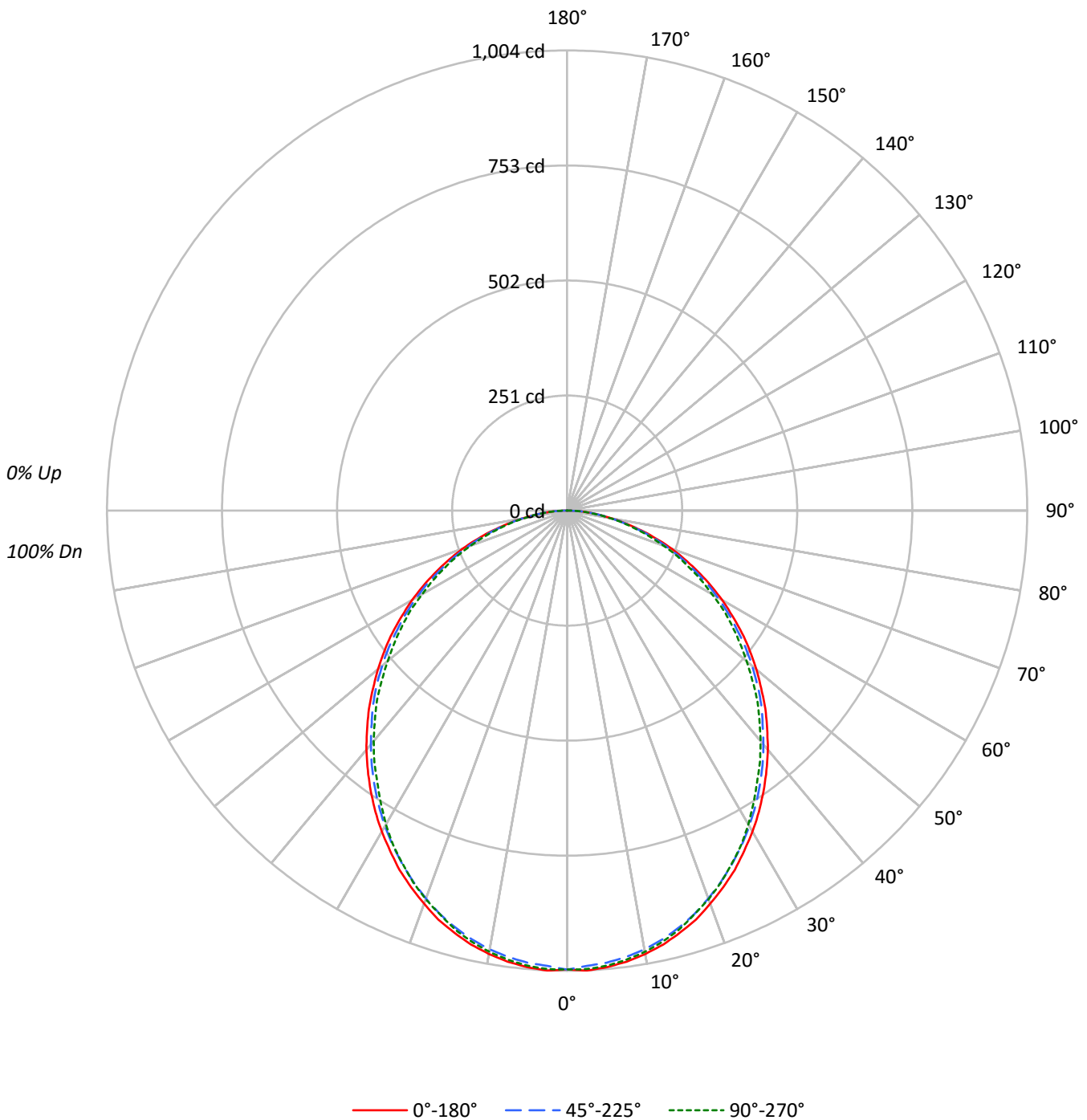
Input Watts (W): 26.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7117	7117	7117
5°	7132	7065	7110
10°	7089	7015	7055
15°	7012	6931	6960
20°	6902	6812	6825
25°	6784	6672	6666
30°	6638	6521	6488
35°	6481	6358	6269
40°	6321	6181	6093
45°	6147	6020	5900
50°	5956	5825	5650
55°	5772	5605	5448
60°	5551	5383	5191
65°	5289	5116	4943
70°	5037	4807	4642
75°	4591	4438	4287
80°	4085	4019	3925
85°	3555	3621	3425



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.5	3.6
10°-20°	266.9	10.2
20°-30°	394.0	15.1
30°-40°	459.7	17.6
40°-50°	461.7	17.7
50°-60°	405.3	15.6
60°-70°	301.9	11.6
70°-80°	172.4	6.6
80°-90°	49.8	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°	755.4	29.0
0°-40°	1215.1	46.6
0°-60°	2082.1	79.9
0°-90°	2606.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2606.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1001	1001	1001	1001	1001	
5°	1000	998	990	997	997	95
15°	953	951	942	946	946	269
25°	865	861	851	852	850	398
35°	747	744	733	729	722	467
45°	612	608	599	589	587	471
55°	466	463	452	445	440	416
65°	314	313	304	297	294	312
75°	167	166	162	159	156	178
85°	44	44	44	44	42	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1001.3	1001.3	1001.3	1001.3	1001.3
2.5°	1004.5	1002.1	994.2	1002.1	1001.3
5°	999.7	998.1	990.2	997.4	996.6
7.5°	992.6	991.0	982.3	989.4	988.6
10°	982.3	980.7	972.0	978.3	977.6
12.5°	969.6	966.5	958.5	963.3	963.3
15°	953.0	950.6	941.9	945.9	945.9
17.5°	935.6	931.6	922.9	927.6	923.7
20°	912.6	911.0	900.7	906.3	902.3
22.5°	889.6	886.5	876.9	880.1	877.7
25°	865.1	861.1	850.8	852.4	850.0
27.5°	836.5	834.2	823.9	824.7	822.3
30°	808.8	806.4	794.6	793.0	790.6
32.5°	778.7	774.8	764.5	761.3	756.5
35°	747.0	743.9	732.8	728.8	722.5
37.5°	714.5	710.6	700.3	694.7	690.8
40°	681.3	677.3	666.2	659.1	656.7
42.5°	645.6	642.5	631.4	625.0	621.1
45°	611.6	608.4	598.9	589.4	587.0
47.5°	574.3	575.1	563.2	553.7	548.2
50°	538.7	536.3	526.8	516.5	511.0
52.5°	502.2	500.7	490.4	481.6	475.3
55°	465.8	463.4	452.3	445.2	439.7
57.5°	427.0	426.2	416.7	407.2	404.8
60°	390.5	387.4	378.7	370.7	365.2
62.5°	352.5	350.1	343.0	334.3	330.3
65°	314.5	312.9	304.2	297.1	293.9
67.5°	277.3	274.1	267.8	261.4	259.8
70°	242.4	238.4	231.3	226.6	223.4
72.5°	204.4	202.0	198.0	192.5	189.3
75°	167.2	165.6	161.6	159.2	156.1
77.5°	132.3	131.5	129.1	127.5	125.2
80°	99.8	99.8	98.2	97.4	95.9
82.5°	71.3	69.7	69.7	68.1	68.1
85°	43.6	44.4	44.4	43.6	42.0
87.5°	21.4	21.4	20.6	20.6	19.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)