

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: P242792

Luminaire Tested: **S125DR-S850D935-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242792
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-S850D935-X4F0-XX-UDD-F-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2832.6 lumens
Efficiency: N/A
Efficacy: 107.3 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

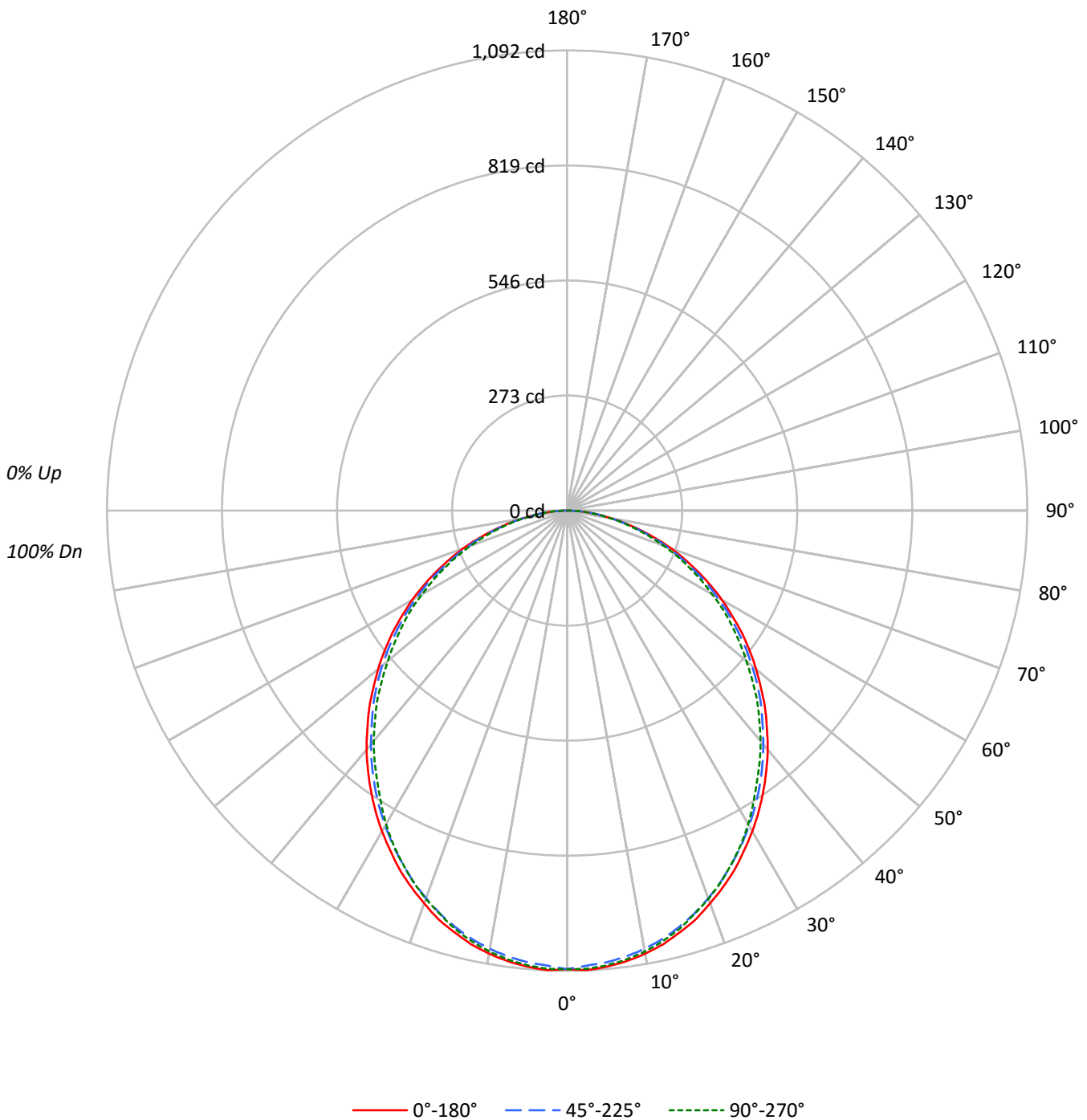
Input Watts (W): 26.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70					70			
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	59					59			
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51					51			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44					44			
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39					39			
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34					34			
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28					28			
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7735	7735	7735
5°	7752	7678	7727
10°	7705	7624	7668
15°	7621	7532	7564
20°	7502	7405	7418
25°	7373	7252	7245
30°	7215	7087	7052
35°	7044	6910	6813
40°	6870	6718	6623
45°	6681	6542	6413
50°	6474	6331	6140
55°	6274	6092	5922
60°	6034	5851	5642
65°	5748	5560	5371
70°	5476	5224	5046
75°	4990	4822	4657
80°	4441	4371	4265
85°	3865	3931	3719



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.7	3.6
10°-20°	290.1	10.2
20°-30°	428.2	15.1
30°-40°	499.6	17.6
40°-50°	501.8	17.7
50°-60°	440.5	15.6
60°-70°	328.1	11.6
70°-80°	187.4	6.6
80°-90°	54.1	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°	821.0	29.0
0°-40°	1320.7	46.6
0°-60°	2263.0	79.9
0°-90°	2832.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2832.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1088	1088	1088	1088	1088	
5°	1087	1085	1076	1084	1083	103
15°	1036	1033	1024	1028	1028	292
25°	940	936	925	926	924	433
35°	812	808	796	792	785	508
45°	665	661	651	641	638	512
55°	506	504	492	484	478	452
65°	342	340	331	323	319	339
75°	182	180	176	173	170	193
85°	47	48	48	47	46	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1088.3	1088.3	1088.3	1088.3	1088.3
2.5°	1091.7	1089.2	1080.6	1089.2	1088.3
5°	1086.6	1084.9	1076.2	1084.0	1083.1
7.5°	1078.8	1077.1	1067.6	1075.4	1074.5
10°	1067.6	1065.9	1056.4	1063.3	1062.5
12.5°	1053.9	1050.4	1041.8	1047.0	1047.0
15°	1035.8	1033.2	1023.7	1028.0	1028.0
17.5°	1016.8	1012.5	1003.1	1008.2	1003.9
20°	991.9	990.1	979.0	985.0	980.7
22.5°	966.9	963.5	953.1	956.6	954.0
25°	940.2	935.9	924.7	926.4	923.9
27.5°	909.2	906.6	895.4	896.3	893.7
30°	879.1	876.5	863.6	861.9	859.3
32.5°	846.4	842.1	830.9	827.4	822.3
35°	811.9	808.5	796.4	792.1	785.2
37.5°	776.6	772.3	761.1	755.1	750.8
40°	740.5	736.2	724.1	716.4	713.8
42.5°	701.7	698.3	686.2	679.3	675.0
45°	664.7	661.2	650.9	640.6	638.0
47.5°	624.2	625.1	612.2	601.8	595.8
50°	585.5	582.9	572.6	561.4	555.3
52.5°	545.9	544.2	533.0	523.5	516.6
55°	506.3	503.7	491.6	483.9	477.9
57.5°	464.1	463.2	452.9	442.6	440.0
60°	424.5	421.0	411.6	402.9	396.9
62.5°	383.1	380.6	372.8	363.3	359.0
65°	341.8	340.1	330.6	322.9	319.4
67.5°	301.3	297.9	291.0	284.1	282.4
70°	263.5	259.2	251.4	246.2	242.8
72.5°	222.1	219.6	215.2	209.2	205.8
75°	181.7	179.9	175.6	173.1	169.6
77.5°	143.8	142.9	140.3	138.6	136.0
80°	108.5	108.5	106.8	105.9	104.2
82.5°	77.5	75.8	75.8	74.0	74.0
85°	47.4	48.2	48.2	47.4	45.6
87.5°	23.2	23.2	22.4	22.4	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)