

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: P243647

Luminaire Tested: **S125DR-H850D930-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243647
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-51)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DR-H850D930-X4F0-XX-UDD-F-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2678.2 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.39' x L: 3.88' x H: 0')
CIE Type: Direct

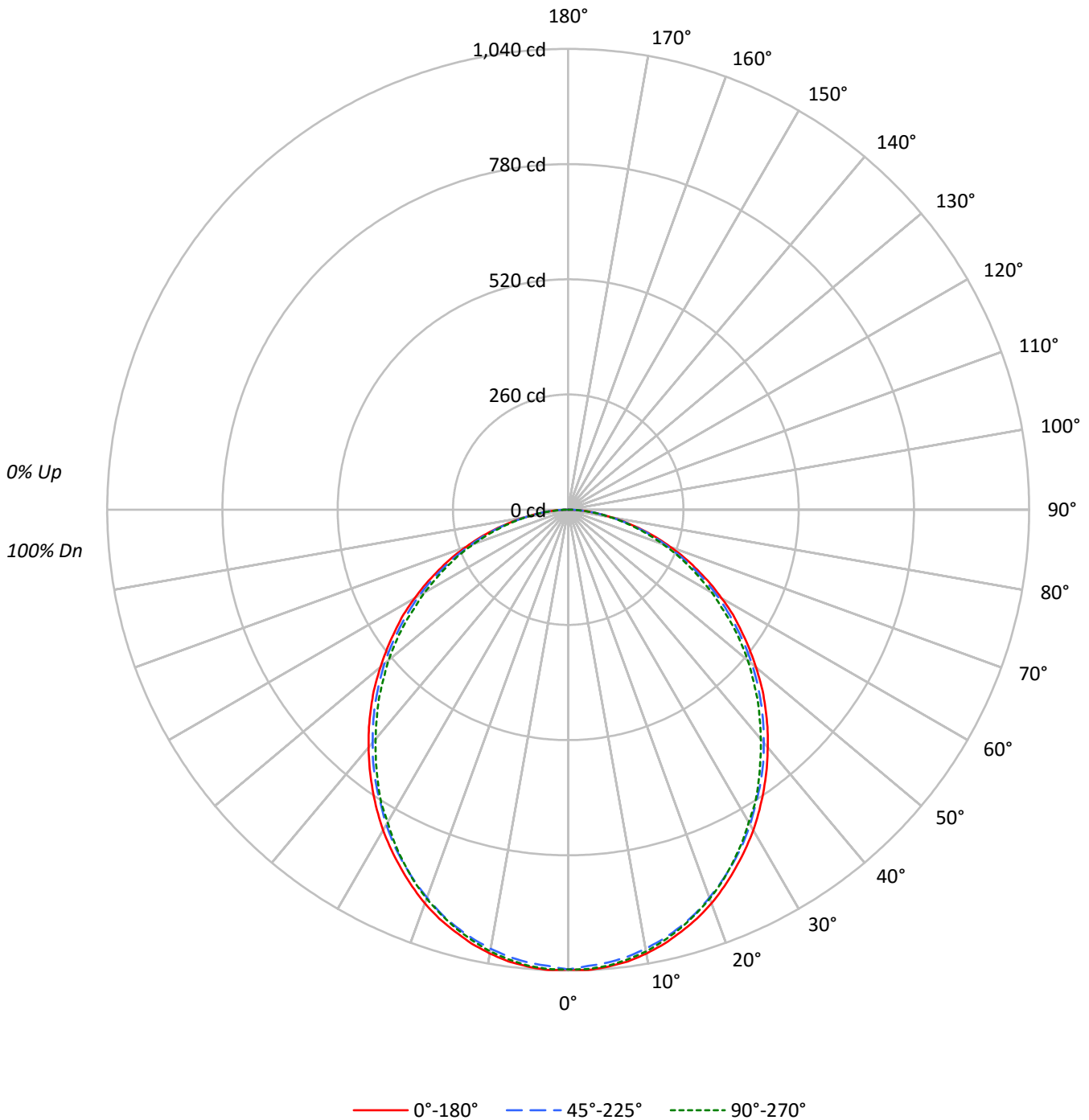
Input Watts (W): 23.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	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	73	70					70			
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60					60			
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51					51			
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44					44			
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39					39			
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7375	7375	7375
5°	7386	7321	7370
10°	7340	7262	7306
15°	7254	7175	7198
20°	7151	7047	7064
25°	7002	6901	6889
30°	6854	6735	6684
35°	6677	6559	6500
40°	6497	6370	6272
45°	6320	6183	6068
50°	6111	5984	5850
55°	5904	5745	5593
60°	5680	5518	5323
65°	5415	5223	5044
70°	5079	4888	4730
75°	4682	4537	4328
80°	4081	4052	3958
85°	3539	3539	3352



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.9	3.7
10°-20°	276.2	10.3
20°-30°	407.2	15.2
30°-40°	474.2	17.7
40°-50°	475.2	17.7
50°-60°	415.4	15.5
60°-70°	308.3	11.5
70°-80°	174.8	6.5
80°-90°	49.0	1.8
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°	781.3	29.2
0°-40°	1255.5	46.9
0°-60°	2146.1	80.1
0°-90°	2678.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2678.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1038	1038	1038	1038	1038	
5°	1035	1034	1026	1034	1033	98
15°	986	984	975	980	978	278
25°	893	890	880	882	878	411
35°	770	765	756	751	749	482
45°	629	627	615	606	604	485
55°	476	476	464	454	451	427
65°	322	320	311	304	300	319
75°	170	168	165	162	158	181
85°	43	43	43	42	41	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1037.6	1037.6	1037.6	1037.6	1037.6
2.5°	1039.8	1038.3	1030.7	1038.3	1037.6
5°	1035.3	1033.8	1026.1	1033.8	1033.0
7.5°	1028.4	1026.1	1017.8	1025.4	1023.9
10°	1017.0	1015.5	1006.3	1012.4	1012.4
12.5°	1003.3	1001.0	991.9	997.2	996.4
15°	985.8	984.3	975.1	980.5	978.2
17.5°	967.5	963.7	955.3	959.9	956.9
20°	945.4	942.4	931.7	935.6	934.0
22.5°	920.3	916.5	906.6	908.9	908.1
25°	892.9	889.9	880.0	882.3	878.5
27.5°	864.8	861.0	851.8	851.8	848.0
30°	835.1	831.3	820.6	820.6	814.5
32.5°	803.1	800.1	787.1	786.4	784.8
35°	769.6	765.0	755.9	751.3	749.1
37.5°	736.1	732.3	722.4	716.3	712.5
40°	700.3	698.0	686.6	681.3	676.0
42.5°	665.3	663.0	650.9	641.7	639.4
45°	628.8	627.3	615.1	605.9	603.7
47.5°	592.2	590.7	578.5	568.6	564.8
50°	552.7	552.7	541.2	531.3	529.1
52.5°	514.6	513.8	502.4	492.5	490.2
55°	476.5	475.8	463.6	453.7	451.4
57.5°	440.8	436.2	425.5	417.9	410.3
60°	399.6	397.4	388.2	378.3	374.5
62.5°	361.6	358.5	349.4	341.0	335.7
65°	322.0	319.7	310.6	303.7	299.9
67.5°	284.7	281.7	272.5	267.2	264.1
70°	244.4	242.1	235.2	228.4	227.6
72.5°	208.6	205.5	201.7	195.6	192.6
75°	170.5	167.5	165.2	162.1	157.6
77.5°	134.0	132.5	130.9	128.6	126.4
80°	99.7	99.7	99.0	97.4	96.7
82.5°	70.8	71.6	69.3	67.7	67.7
85°	43.4	43.4	43.4	41.9	41.1
87.5°	21.3	19.0	19.0	17.5	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)