

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: P243626

Luminaire Tested: **S125DR-H375D927-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243626
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-H375D927-X4F0-XX-UDD-F-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1166.8 lumens
Efficiency: N/A
Efficacy: 104.2 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

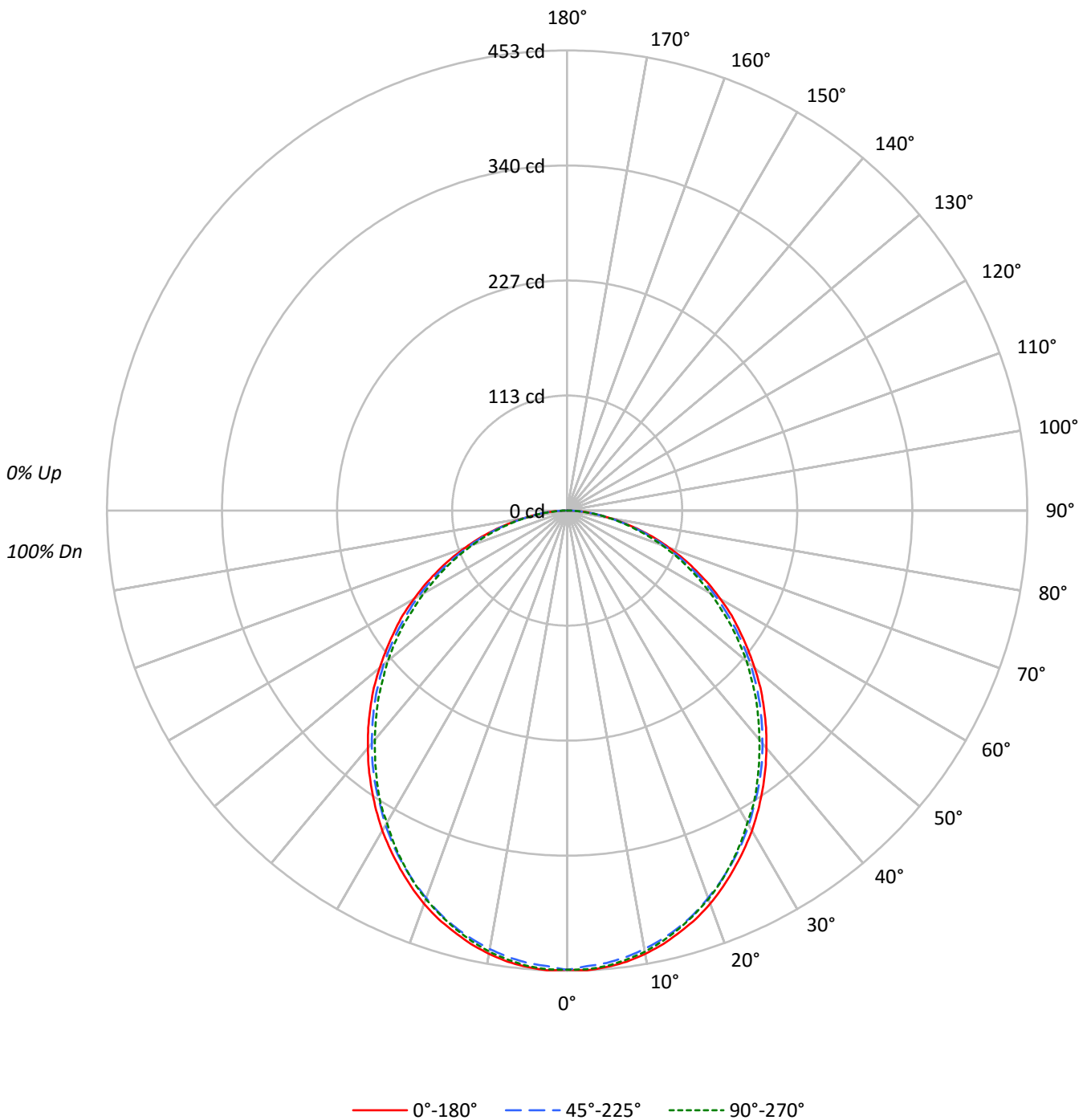
Input Watts (W): 11.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3213	3213	3213
5°	3218	3189	3211
10°	3198	3164	3183
15°	3160	3126	3135
20°	3115	3070	3078
25°	3051	3007	3001
30°	2986	2934	2912
35°	2909	2857	2831
40°	2831	2775	2732
45°	2753	2694	2643
50°	2663	2607	2549
55°	2572	2503	2437
60°	2475	2404	2320
65°	2359	2275	2198
70°	2213	2130	2061
75°	2040	1977	1884
80°	1776	1764	1723
85°	1541	1541	1460



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.6	3.7
10°-20°	120.3	10.3
20°-30°	177.4	15.2
30°-40°	206.6	17.7
40°-50°	207.0	17.7
50°-60°	181.0	15.5
60°-70°	134.3	11.5
70°-80°	76.2	6.5
80°-90°	21.3	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°	340.4	29.2
0°-40°	547.0	46.9
0°-60°	935.0	80.1
0°-90°	1166.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1166.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	452	452	452	452	452	
5°	451	450	447	450	450	43
15°	430	429	425	427	426	121
25°	389	388	383	384	383	179
35°	335	333	329	327	326	210
45°	274	273	268	264	263	211
55°	208	207	202	198	197	186
65°	140	139	135	132	131	139
75°	74	73	72	71	69	79
85°	19	19	19	18	18	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	452.0	452.0	452.0	452.0	452.0
2.5°	453.0	452.3	449.0	452.3	452.0
5°	451.0	450.4	447.0	450.4	450.0
7.5°	448.0	447.0	443.4	446.7	446.0
10°	443.1	442.4	438.4	441.1	441.1
12.5°	437.1	436.1	432.1	434.4	434.1
15°	429.5	428.8	424.8	427.1	426.1
17.5°	421.5	419.8	416.2	418.2	416.9
20°	411.9	410.6	405.9	407.6	406.9
22.5°	400.9	399.3	395.0	396.0	395.6
25°	389.0	387.7	383.4	384.4	382.7
27.5°	376.7	375.1	371.1	371.1	369.4
30°	363.8	362.1	357.5	357.5	354.8
32.5°	349.9	348.5	342.9	342.6	341.9
35°	335.3	333.3	329.3	327.3	326.3
37.5°	320.7	319.0	314.7	312.1	310.4
40°	305.1	304.1	299.1	296.8	294.5
42.5°	289.8	288.9	283.5	279.6	278.6
45°	273.9	273.3	268.0	264.0	263.0
47.5°	258.0	257.3	252.0	247.7	246.1
50°	240.8	240.8	235.8	231.5	230.5
52.5°	224.2	223.9	218.9	214.6	213.6
55°	207.6	207.3	202.0	197.7	196.7
57.5°	192.0	190.0	185.4	182.1	178.8
60°	174.1	173.1	169.1	164.8	163.2
62.5°	157.5	156.2	152.2	148.6	146.3
65°	140.3	139.3	135.3	132.3	130.7
67.5°	124.0	122.7	118.7	116.4	115.1
70°	106.5	105.5	102.5	99.5	99.2
72.5°	90.9	89.5	87.9	85.2	83.9
75°	74.3	73.0	72.0	70.6	68.6
77.5°	58.4	57.7	57.0	56.0	55.1
80°	43.4	43.4	43.1	42.4	42.1
82.5°	30.8	31.2	30.2	29.5	29.5
85°	18.9	18.9	18.9	18.2	17.9
87.5°	9.3	8.3	8.3	7.6	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)