

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: P243760

Luminaire Tested: **S125RDR-H850D940-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243760
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-66)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125RDR-H850D940-X4F0-XX-UDD-F-W
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2782.1 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.12 / 1.26
Luminous Opening: Rectangular (W 0.39' x L: 3.88' x H: 0')
CIE Type: Direct

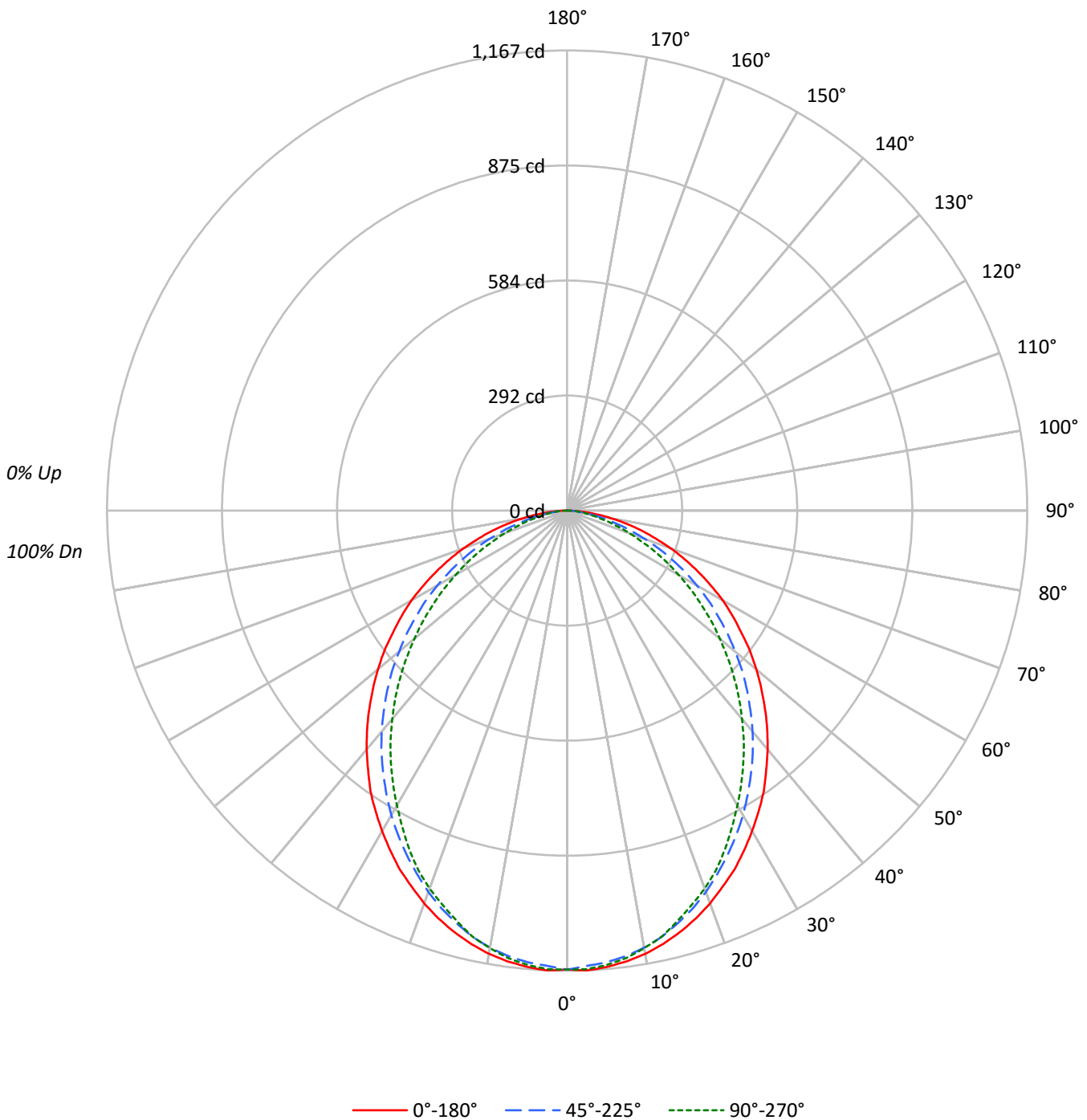
Input Watts (W): 23.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8272	8272	8272
5°	8286	8203	8250
10°	8238	8123	8130
15°	8142	7970	7933
20°	8017	7784	7714
25°	7874	7554	7430
30°	7700	7318	7086
35°	7542	7057	6762
40°	7338	6790	6396
45°	7130	6485	6017
50°	6923	6150	5588
55°	6675	5777	5137
60°	6473	5397	4651
65°	6160	4943	4117
70°	5812	4324	3512
75°	5349	3611	2859
80°	4703	2795	2349
85°	4004	2308	2169



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.6	3.9
10°-20°	307.1	11.0
20°-30°	446.8	16.1
30°-40°	511.7	18.4
40°-50°	500.7	18.0
50°-60°	422.8	15.2
60°-70°	296.0	10.6
70°-80°	150.3	5.4
80°-90°	37.0	1.3
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°	863.5	31.0
0°-40°	1375.3	49.4
0°-60°	2298.8	82.6
0°-90°	2782.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2782.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1164	1164	1164	1164	1164	
5°	1161	1159	1150	1157	1156	110
15°	1106	1102	1083	1082	1078	312
25°	1004	992	963	953	948	462
35°	869	848	813	789	779	543
45°	709	686	645	611	599	547
55°	539	515	466	429	415	483
65°	366	338	294	257	245	363
75°	195	171	132	110	104	206
85°	49	32	28	27	27	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1163.9	1163.9	1163.9	1163.9	1163.9
2.5°	1167.3	1164.8	1155.6	1163.9	1163.9
5°	1161.4	1158.9	1149.8	1157.3	1156.4
7.5°	1153.1	1150.6	1139.8	1147.3	1144.8
10°	1141.5	1138.1	1125.6	1129.8	1126.5
12.5°	1125.6	1122.3	1107.3	1109.0	1107.3
15°	1106.5	1102.3	1083.2	1082.3	1078.2
17.5°	1084.8	1079.0	1058.2	1055.7	1049.0
20°	1059.9	1052.4	1029.1	1024.1	1019.9
22.5°	1031.6	1024.1	996.6	989.1	986.6
25°	1004.1	992.4	963.3	953.3	947.5
27.5°	971.6	958.3	928.3	915.0	905.0
30°	938.3	923.3	891.7	874.2	863.4
32.5°	904.2	886.7	852.6	830.9	821.7
35°	869.2	848.4	813.4	789.3	779.3
37.5°	829.2	808.4	773.5	745.2	736.0
40°	790.9	769.3	731.8	701.0	689.4
42.5°	751.0	728.5	687.7	655.2	645.2
45°	709.4	686.0	645.2	611.1	598.6
47.5°	667.7	644.4	601.9	567.8	552.0
50°	626.1	601.1	556.2	521.2	505.4
52.5°	584.5	557.0	512.9	475.4	461.2
55°	538.7	515.4	466.2	428.8	414.6
57.5°	497.9	472.1	425.4	387.1	371.3
60°	455.4	427.1	379.7	342.2	327.2
62.5°	410.5	382.2	336.4	298.9	285.6
65°	366.3	338.0	293.9	257.3	244.8
67.5°	322.2	295.6	251.4	217.3	203.1
70°	279.7	252.3	208.1	177.3	169.0
72.5°	234.8	213.1	169.0	141.5	134.9
75°	194.8	170.7	131.5	109.9	104.1
77.5°	154.0	130.7	97.4	82.4	77.4
80°	114.9	94.9	68.3	59.1	57.4
82.5°	79.1	59.9	45.0	43.3	42.5
85°	49.1	31.6	28.3	26.6	26.6
87.5°	20.8	13.3	13.3	12.5	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)