

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: P243559

Luminaire Tested: **S124RDR-H795D927-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243559
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-65)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDR-H795D927-X4F0-XX-UDD-F-W
Description: DEFINE 4 REGRESSED 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: 2363.3 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.1 / 1.25
Luminous Opening: Rectangular (W 0.31' x L: 3.88' x H: 0')
CIE Type: Direct

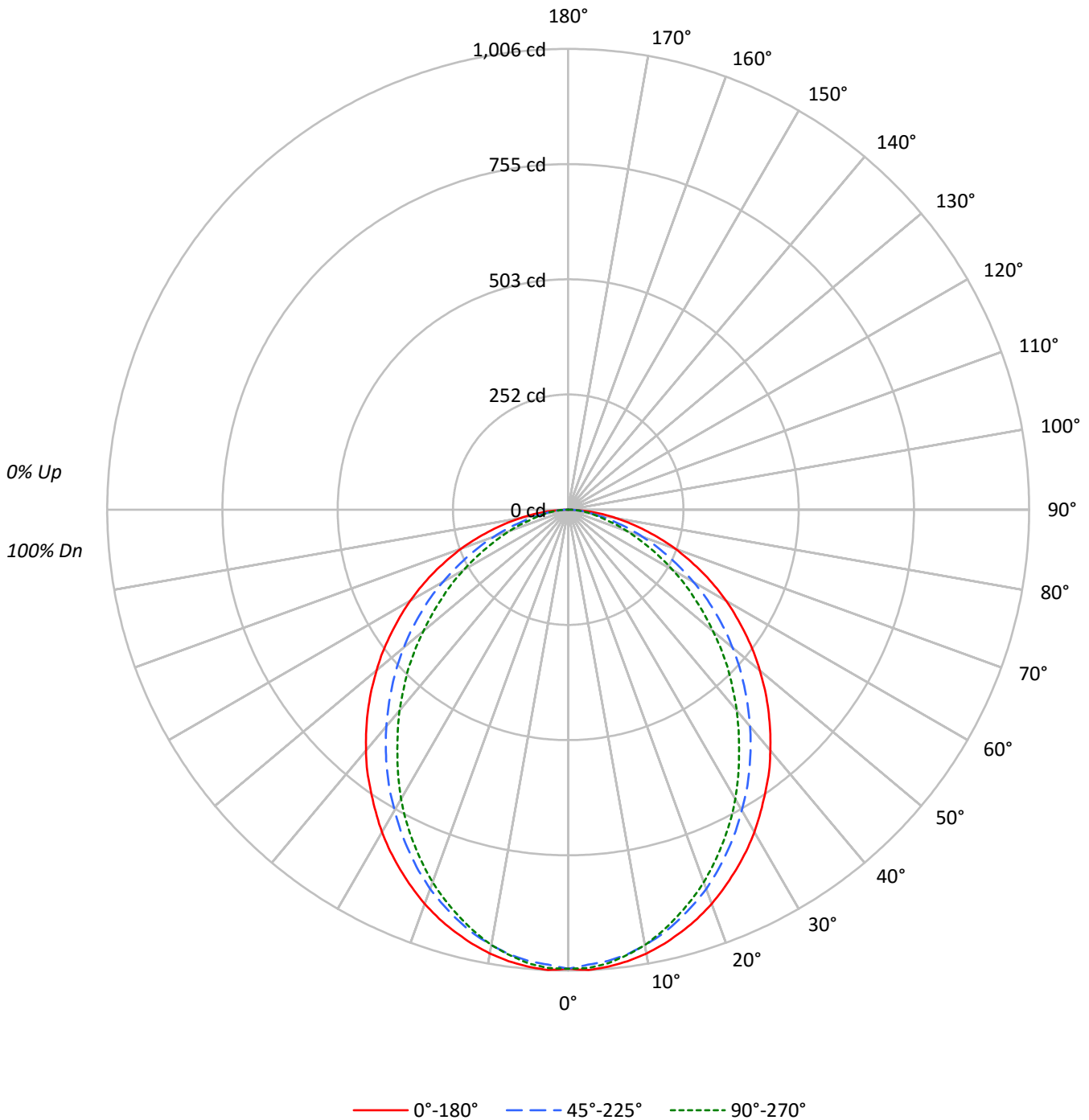
Input Watts (W): 23.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72					72			
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61					61			
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53					53			
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46					46			
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41					41			
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36					36			
8	62	49	41	35	61	49	41	35	47	40	35	46	39	35	45	39	34	33					33			
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	30					30			
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27					27			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8908	8908	8908
5°	8936	8824	8870
10°	8879	8712	8712
15°	8780	8543	8461
20°	8662	8333	8186
25°	8502	8067	7849
30°	8344	7774	7486
35°	8146	7489	7054
40°	7965	7166	6643
45°	7764	6825	6211
50°	7549	6475	5707
55°	7313	6075	5204
60°	7088	5614	4681
65°	6783	5071	4091
70°	6458	4478	3555
75°	5969	3733	2895
80°	5452	2918	2652
85°	4824	2794	2642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.3	4.0
10°-20°	263.2	11.1
20°-30°	381.7	16.2
30°-40°	435.0	18.4
40°-50°	423.3	17.9
50°-60°	355.6	15.0
60°-70°	247.7	10.5
70°-80°	127.9	5.4
80°-90°	34.6	1.5
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°	739.2	31.3
0°-40°	1174.2	49.7
0°-60°	1953.1	82.6
0°-90°	2363.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2363.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1002	1002	1002	1002	1002	
5°	1002	998	989	996	994	95
15°	954	947	928	927	919	269
25°	867	851	822	811	800	399
35°	751	728	690	664	650	470
45°	618	588	543	508	494	476
55°	472	442	392	352	336	423
65°	322	291	241	206	194	319
75°	174	147	109	91	84	185
85°	47	30	27	26	26	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1002.2	1002.2	1002.2	1002.2	1002.2
2.5°	1005.9	1003.0	994.1	1002.2	1001.5
5°	1001.5	998.5	988.9	996.3	994.1
7.5°	994.1	990.4	979.3	984.5	980.8
10°	983.7	980.0	965.2	968.9	965.2
12.5°	970.4	965.2	949.0	949.7	943.8
15°	954.1	946.7	928.3	926.8	919.4
17.5°	936.4	926.8	905.3	901.6	893.5
20°	915.7	903.8	880.9	872.8	865.4
22.5°	892.0	878.0	852.8	843.2	833.6
25°	866.9	850.6	822.5	810.7	800.3
27.5°	841.0	821.7	791.4	776.6	766.3
30°	812.9	790.7	757.4	740.4	729.3
32.5°	781.8	759.6	724.9	704.1	690.1
35°	750.7	727.8	690.1	664.2	650.1
37.5°	720.4	694.5	653.8	627.2	610.9
40°	686.4	659.0	617.6	587.3	572.5
42.5°	652.4	624.3	579.9	548.1	531.8
45°	617.6	588.0	542.9	508.1	494.1
47.5°	582.1	552.5	505.9	469.7	453.4
50°	545.9	516.3	468.2	428.3	412.7
52.5°	510.4	479.3	431.2	390.5	374.3
55°	471.9	441.6	392.0	352.1	335.8
57.5°	434.9	403.1	355.0	314.3	301.0
60°	398.7	366.9	315.8	276.6	263.3
62.5°	360.2	328.4	278.1	240.4	228.6
65°	322.5	291.4	241.1	206.4	194.5
67.5°	284.0	255.9	207.1	173.8	164.2
70°	248.5	216.7	172.3	143.5	136.8
72.5°	210.8	182.7	139.8	116.1	110.9
75°	173.8	147.2	108.7	91.0	84.3
77.5°	139.8	113.9	82.1	67.3	67.3
80°	106.5	83.6	57.0	53.3	51.8
82.5°	75.4	54.0	42.2	39.2	38.5
85°	47.3	30.3	27.4	25.9	25.9
87.5°	22.9	14.1	14.1	13.3	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)