

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: P242725

Luminaire Tested: **S124RDR-S1195D935-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242725
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-26)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDR-S1195D935-X4F0-XX-UDD-F-W
Description: DEFINE 4 REGRESSED 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: 3850.8 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.31' x L: 3.88' x H: 0')
CIE Type: Direct

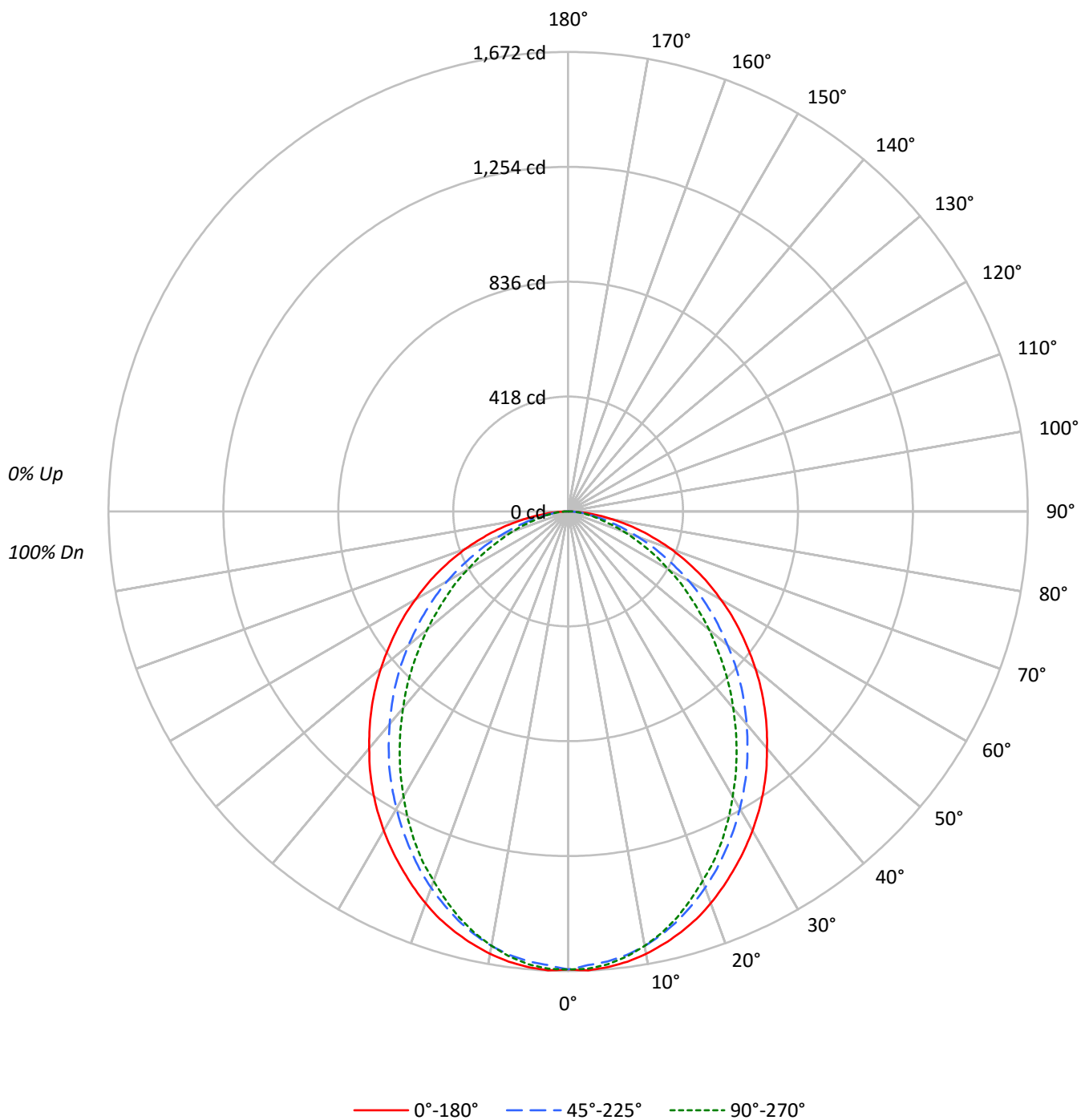
Input Watts (W): 41.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	105	101	98	107	103	99	96		99	96	93		95	92	90		91	89	87
2	100	93	86	81	98	91	85	80		87	82	78		84	80	76		81	78	74
3	92	82	74	68	89	80	73	67		77	71	66		75	69	65		72	68	64
4	84	73	65	58	82	72	64	58		69	62	57		67	61	56		65	60	56
5	78	66	57	51	76	65	56	50		62	55	50		61	54	49		59	53	49
6	72	59	51	45	70	58	50	44		57	49	44		55	49	44		53	48	43
7	67	54	46	40	65	53	45	40		52	45	39		50	44	39		49	43	39
8	63	50	41	36	61	49	41	36		48	40	35		46	40	35		45	39	35
9	59	46	38	32	57	45	37	32		44	37	32		43	36	32		42	36	32
10	55	42	35	29	54	42	34	29		41	34	29		40	33	29		39	33	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14813	14813	14813
5°	14848	14666	14757
10°	14754	14489	14489
15°	14585	14186	14080
20°	14352	13785	13532
25°	14055	13316	12979
30°	13765	12823	12286
35°	13446	12310	11590
40°	13060	11727	10839
45°	12704	11149	10074
50°	12299	10482	9264
55°	11865	9790	8386
60°	11388	9029	7486
65°	10950	8079	6602
70°	10315	7030	5606
75°	9510	5828	4557
80°	8298	4443	4182
85°	7027	4039	3774

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.7	4.1
10°-20°	436.9	11.3
20°-30°	630.8	16.4
30°-40°	714.9	18.6
40°-50°	690.3	17.9
50°-60°	573.9	14.9
60°-70°	396.1	10.3
70°-80°	200.2	5.2
80°-90°	50.8	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°	1224.5	31.8
0°-40°	1939.4	50.4
0°-60°	3203.6	83.2
0°-90°	3850.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3850.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1666	1666	1666	1666	1666	
5°	1664	1659	1644	1656	1654	158
15°	1585	1573	1542	1539	1530	447
25°	1433	1410	1358	1336	1323	660
35°	1239	1198	1134	1091	1068	774
45°	1011	963	887	824	801	779
55°	766	715	632	565	541	685
65°	521	466	384	329	314	514
75°	277	230	170	140	133	292
85°	69	43	40	37	37	80
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1666.5	1666.5	1666.5	1666.5	1666.5
2.5°	1671.6	1666.5	1652.5	1666.5	1665.3
5°	1664.0	1658.9	1643.6	1656.3	1653.8
7.5°	1652.5	1647.4	1628.3	1637.2	1633.4
10°	1634.6	1628.3	1605.3	1610.4	1605.3
12.5°	1611.7	1604.0	1575.9	1578.5	1570.8
15°	1584.9	1573.4	1541.5	1538.9	1530.0
17.5°	1554.3	1537.7	1500.7	1494.3	1481.5
20°	1517.2	1500.7	1457.3	1447.1	1430.5
22.5°	1476.4	1457.3	1410.1	1393.5	1380.7
25°	1433.0	1410.1	1357.7	1336.0	1323.3
27.5°	1388.4	1360.3	1305.4	1279.9	1262.0
30°	1341.1	1309.2	1249.3	1217.4	1197.0
32.5°	1291.4	1254.4	1191.8	1153.6	1134.4
35°	1239.1	1198.2	1134.4	1091.0	1068.1
37.5°	1184.2	1142.1	1071.9	1024.7	1001.7
40°	1125.5	1083.4	1010.6	957.1	934.1
42.5°	1069.3	1024.7	948.1	893.2	869.0
45°	1010.6	963.4	886.9	824.3	801.4
47.5°	950.7	902.2	823.1	758.0	732.5
50°	889.4	839.7	758.0	694.2	669.9
52.5°	826.9	778.4	694.2	629.1	603.6
55°	765.6	714.6	631.7	565.3	541.1
57.5°	705.7	652.1	570.4	502.8	484.9
60°	640.6	589.5	507.9	441.5	421.1
62.5°	581.9	528.3	444.1	384.1	368.8
65°	520.6	465.8	384.1	329.2	313.9
67.5°	456.8	404.5	327.9	279.5	261.6
70°	396.9	343.3	270.5	228.4	215.7
72.5°	333.1	285.8	218.2	183.8	172.3
75°	276.9	229.7	169.7	140.4	132.7
77.5°	218.2	177.4	126.3	105.9	103.4
80°	162.1	125.1	86.8	82.9	81.7
82.5°	113.6	80.4	62.5	60.0	58.7
85°	68.9	43.4	39.6	37.0	37.0
87.5°	29.3	19.1	17.9	16.6	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)