

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1032075

Luminaire Tested: S123RDIW-B1000D755UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032075
REPORT IS A COMBINATION OF REPORTS P993931 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B1000D755UB40-4F0-XX-W2A-F1
Description: Define 3 Regressed Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

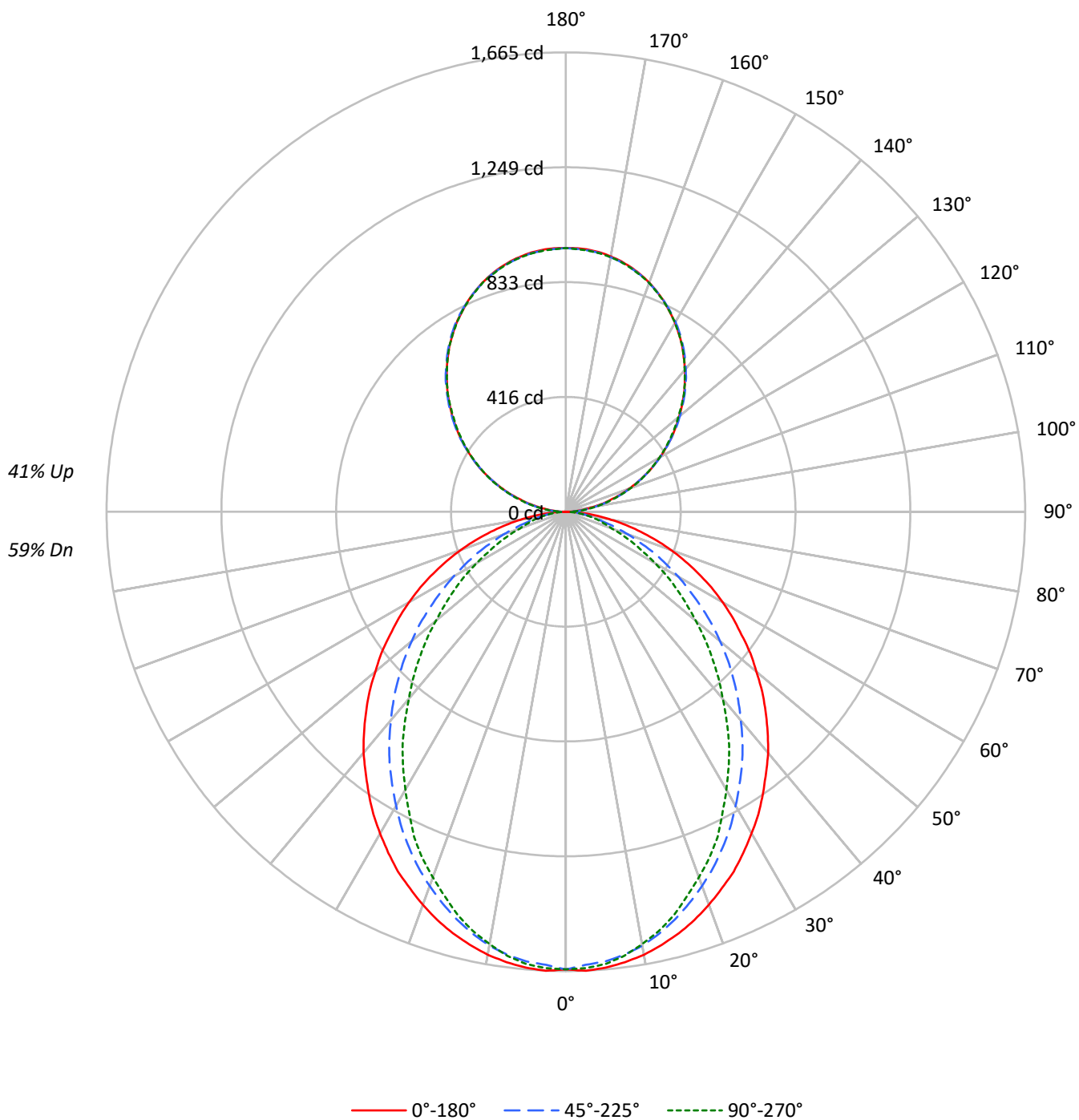
Lumens per Lamp: N/A
Luminaire Lumens: 6397.0 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 70
Input Voltage (V):
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: 24 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64
1	100	96	92	89	93	90	86	83	78	75	73	67	65	64	57	56	55
2	91	84	78	73	85	79	74	69	69	65	61	59	56	54	51	49	47
3	84	74	67	61	78	70	63	58	61	56	52	53	49	46	45	43	40
4	77	66	58	52	71	62	55	50	54	49	45	47	43	40	41	38	35
5	71	59	51	45	66	56	48	43	49	43	39	43	38	35	37	33	31
6	65	53	45	39	61	50	43	38	44	38	34	39	34	31	34	30	27
7	60	48	40	35	56	45	38	33	40	34	30	35	31	27	31	27	24
8	56	44	36	31	52	41	34	30	37	31	27	32	28	24	28	25	22
9	52	40	33	28	49	38	31	26	34	28	24	30	25	22	26	23	20
10	49	37	30	25	46	35	28	24	31	26	22	28	23	20	24	21	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17853	17853	17853
5°	17882	17221	17174
10°	17741	16574	16247
15°	17511	15773	15231
20°	17209	14903	14096
25°	16897	13998	13021
30°	16498	13036	11749
35°	16086	12091	10591
40°	15699	11064	9311
45°	15203	10060	8161
50°	14655	8990	6971
55°	14088	7842	5880
60°	13544	6666	4773
65°	12843	5458	3725
70°	11962	4127	2663
75°	10693	2795	2109
80°	9126	1941	1479
85°	6849	1050	776

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15203 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.9	2.4
10°-20°	433.7	6.8
20°-30°	624.5	9.8
30°-40°	703.3	11.0
40°-50°	672.7	10.5
50°-60°	550.7	8.6
60°-70°	371.3	5.8
70°-80°	186.2	2.9
80°-90°	50.7	0.8
90°-100°	61.5	1.0
100°-110°	186.2	2.9
110°-120°	317.0	5.0
120°-130°	417.0	6.5
130°-140°	468.7	7.3
140°-150°	460.8	7.2
150°-160°	388.0	6.1
160°-170°	258.3	4.0
170°-180°	90.4	1.4
0°-30°	1214.2	19.0
0°-40°	1917.4	30.0
0°-60°	3140.8	49.1
0°-90°	3749.0	58.6
90°-120°	564.7	8.8
90°-150°	1911.3	29.9
90°-180°	2648.0	41.4
0°-180°	6397.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1659	1659	1659	1659	1659	
5°	1659	1652	1636	1648	1645	157
15°	1582	1567	1529	1523	1513	446
25°	1439	1406	1344	1316	1301	662
35°	1246	1197	1114	1056	1032	780
45°	1024	963	860	783	751	790
55°	778	712	597	519	492	697
65°	531	457	352	286	272	526
75°	281	217	143	129	126	300
85°	71	42	38	35	35	78
90°	1	8	18	21	22	8
95°	44	50	56	59	59	49
105°	169	170	177	177	179	181
115°	319	321	320	321	320	316
125°	467	469	468	465	462	416
135°	606	610	610	607	605	467
145°	735	736	739	738	735	459
155°	842	842	842	845	840	387
165°	917	914	914	919	914	259
175°	953	950	950	955	950	91
180°	956	956	956	956	956	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1658.6	1658.6	1658.6	1658.6	1658.6
2.5°	1665.3	1659.9	1643.8	1658.6	1655.9
5°	1658.6	1651.8	1635.7	1647.8	1645.1
7.5°	1646.5	1639.7	1619.6	1627.6	1623.6
10°	1630.3	1620.9	1596.7	1598.0	1591.3
12.5°	1607.5	1596.7	1565.8	1564.4	1556.3
15°	1581.9	1567.1	1529.4	1522.7	1513.3
17.5°	1551.0	1534.8	1487.7	1474.3	1460.8
20°	1516.0	1494.5	1443.3	1425.9	1409.7
22.5°	1477.0	1451.4	1396.3	1373.4	1358.6
25°	1439.3	1405.7	1343.8	1315.6	1300.8
27.5°	1393.6	1357.3	1290.0	1252.3	1229.5
30°	1346.5	1306.1	1230.8	1185.1	1163.6
32.5°	1299.4	1252.3	1171.6	1120.5	1097.6
35°	1245.6	1197.2	1113.8	1055.9	1031.7
37.5°	1191.8	1139.3	1051.9	987.3	957.7
40°	1140.7	1081.5	986.0	916.0	885.1
42.5°	1082.8	1023.7	924.1	846.1	819.2
45°	1023.7	963.1	859.5	782.9	750.6
47.5°	965.8	898.6	796.3	712.9	684.7
50°	901.2	838.0	729.1	645.7	614.7
52.5°	843.4	773.5	665.8	578.4	551.5
55°	777.5	711.6	597.2	519.2	492.3
57.5°	718.3	647.0	531.3	457.4	434.5
60°	656.4	582.4	470.8	398.2	375.3
62.5°	594.6	520.6	408.9	341.7	317.5
65°	531.3	457.4	352.4	286.5	271.7
67.5°	468.1	392.8	290.6	240.8	224.6
70°	406.2	333.6	239.4	192.4	177.6
72.5°	344.4	273.1	189.7	153.3	149.3
75°	281.1	216.6	142.6	129.1	126.4
77.5°	223.3	164.1	111.6	103.6	100.9
80°	168.1	113.0	84.7	80.7	78.0
82.5°	115.7	69.9	60.5	56.5	56.5
85°	71.3	41.7	37.7	35.0	35.0
87.5°	32.3	17.5	17.5	16.1	14.8
90°	0.8	8.3	18.0	21.0	22.5
92.5°	22.5	27.0	31.5	33.8	32.3
95°	44.3	49.5	55.6	58.6	58.6
97.5°	72.8	76.6	81.1	84.8	84.1
100°	102.1	106.6	110.4	112.6	114.1
102.5°	135.9	138.1	143.4	145.6	144.9
105°	168.9	170.4	177.2	177.2	178.7
107.5°	207.9	208.7	211.7	214.0	213.2
110°	244.0	245.5	247.0	250.0	248.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	281.5	282.3	282.3	286.0	286.0
115°	319.1	321.3	319.8	320.6	319.8
117.5°	357.3	358.1	356.6	356.6	354.3
120°	392.6	397.1	393.4	392.6	391.1
122.5°	429.4	432.4	430.9	428.7	426.4
125°	466.9	469.2	467.7	464.7	461.7
127.5°	501.5	506.0	504.5	500.0	497.0
130°	536.0	542.0	539.8	536.8	531.5
132.5°	570.5	576.6	575.1	571.3	567.5
135°	605.8	610.3	609.6	606.6	605.1
137.5°	638.1	641.9	644.1	640.4	638.1
140°	671.9	675.6	676.4	675.6	670.4
142.5°	702.7	706.4	707.9	707.2	703.4
145°	735.0	736.5	738.7	738.0	735.0
147.5°	762.7	765.7	768.0	768.0	763.5
150°	792.0	793.5	795.0	795.0	790.5
152.5°	816.0	818.3	819.0	820.5	816.8
155°	841.6	841.6	842.3	845.3	840.1
157.5°	863.3	862.6	863.3	866.3	861.8
160°	883.6	882.1	882.1	885.8	882.8
162.5°	901.6	899.4	900.1	903.9	898.6
165°	916.6	914.4	914.4	918.9	913.6
167.5°	929.4	926.4	927.1	931.6	927.1
170°	939.9	936.9	936.9	942.2	936.9
172.5°	948.2	945.2	945.2	949.7	944.4
175°	953.4	950.4	950.4	954.9	949.7
177.5°	956.4	953.4	953.4	957.9	952.7
180°	955.7	955.7	955.7	955.7	955.7

(END OF REPORT)