

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: P1031111

Luminaire Tested: S123RDIW-B1165D755UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031111
REPORT IS A COMBINATION OF REPORTS P994131 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B1165D755UB2750-4F0-XX-W2A-F_3000K
Description: Define 3 Regressed Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

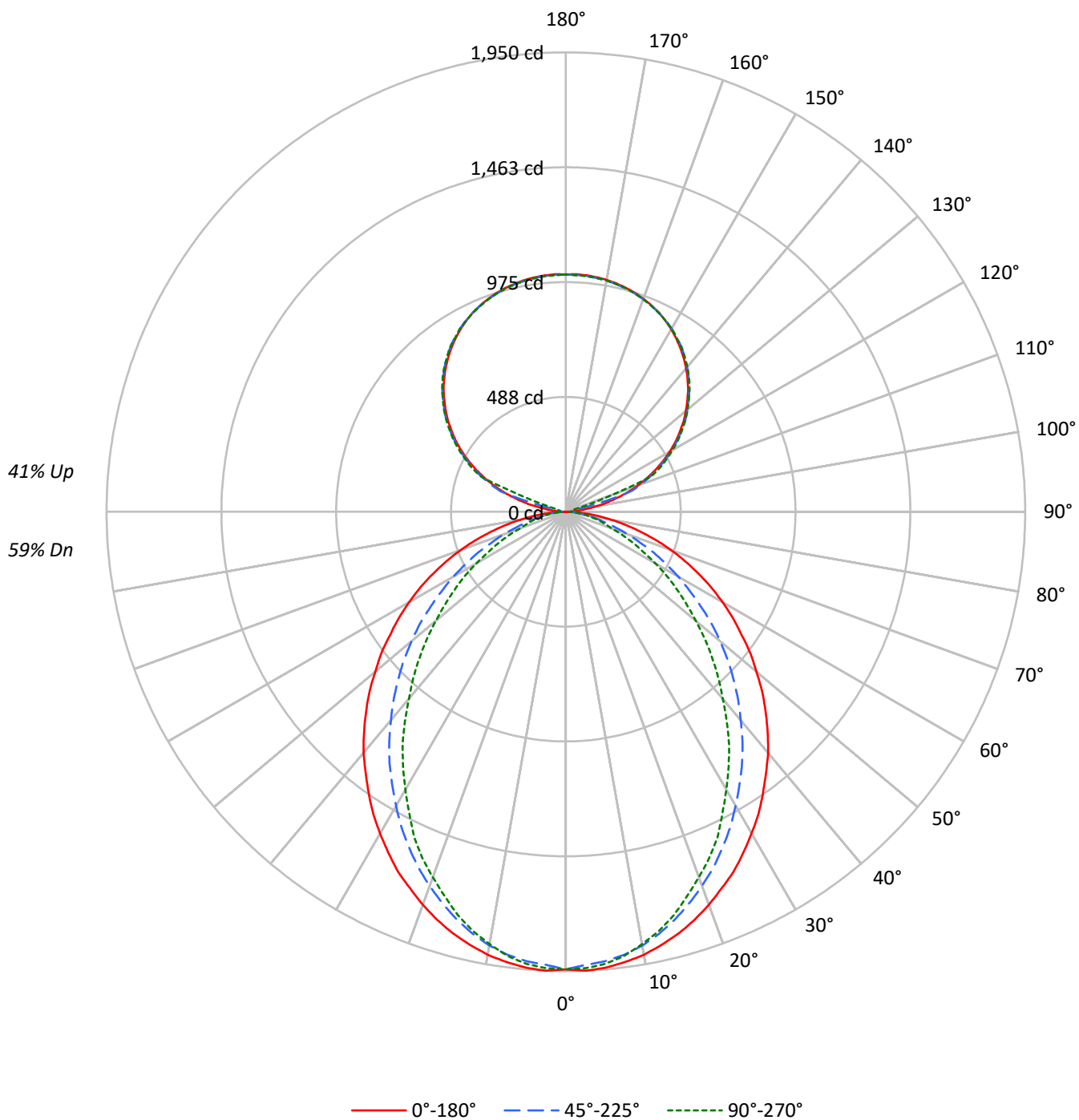
Lumens per Lamp: N/A
Luminaire Lumens: 7462.0 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 84.5
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	76	73		67	66	64		57	56	55
2	92	84	78	73		85	79	74	69		69	65	61		60	57	54		51	49	47
3	84	74	67	61		78	70	63	58		61	56	52		53	49	46		46	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	34	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		33	28	24		28	25	22
9	52	40	33	28		49	38	31	27		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°	20907	20907	20907
5°	20941	20167	20112
10°	20776	19408	19026
15°	20506	18472	17837
20°	20152	17453	16507
25°	19787	16393	15248
30°	19319	15266	13759
35°	18838	14159	12402
40°	18384	12958	10904
45°	17804	11782	9558
50°	17162	10527	8164
55°	16498	9184	6885
60°	15862	7805	5589
65°	15041	6392	4362
70°	14009	4834	3117
75°	12523	3274	2471
80°	10690	2274	1733
85°	8021	1228	909

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 17804 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.6	2.4
10°-20°	507.9	6.8
20°-30°	731.3	9.8
30°-40°	823.6	11.0
40°-50°	787.8	10.6
50°-60°	644.9	8.6
60°-70°	434.8	5.8
70°-80°	218.1	2.9
80°-90°	59.0	0.8
90°-100°	35.5	0.5
100°-110°	171.8	2.3
110°-120°	421.0	5.6
120°-130°	534.5	7.2
130°-140°	571.0	7.7
140°-150°	533.9	7.2
150°-160°	430.6	5.8
160°-170°	277.9	3.7
170°-180°	95.8	1.3
0°-30°	1421.8	19.1
0°-40°	2245.4	30.1
0°-60°	3678.1	49.3
0°-90°	4390.0	58.8
90°-120°	628.3	8.4
90°-150°	2267.7	30.4
90°-180°	3072.0	41.2
0°-180°	7462.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1942	1942	1942	1942	1942	
5°	1942	1934	1916	1930	1926	184
15°	1852	1835	1791	1783	1772	522
25°	1686	1646	1574	1541	1523	775
35°	1459	1402	1304	1237	1208	913
45°	1199	1128	1007	917	879	925
55°	910	833	699	608	576	817
65°	622	536	413	336	318	616
75°	329	254	167	151	148	351
85°	84	49	44	41	41	91
90°	1	8	18	21	22	8
95°	46	15	23	28	28	55
105°	223	231	164	31	33	237
115°	418	423	430	437	440	413
125°	590	596	599	600	602	527
135°	734	739	742	744	742	565
145°	848	853	854	856	856	531
155°	934	932	933	937	932	430
165°	984	982	982	988	982	278
175°	1008	1004	1005	1010	1004	96
180°	1008	1008	1008	1008	1008	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1942.3	1942.3	1942.3	1942.3	1942.3
2.5°	1950.2	1943.9	1925.0	1942.3	1939.1
5°	1942.3	1934.4	1915.5	1929.7	1926.5
7.5°	1928.1	1920.2	1896.6	1906.1	1901.3
10°	1909.2	1898.2	1869.8	1871.4	1863.5
12.5°	1882.4	1869.8	1833.6	1832.0	1822.6
15°	1852.5	1835.2	1791.1	1783.2	1772.2
17.5°	1816.3	1797.4	1742.2	1726.5	1710.7
20°	1775.3	1750.1	1690.3	1669.8	1650.9
22.5°	1729.6	1699.7	1635.1	1608.3	1591.0
25°	1685.5	1646.2	1573.7	1540.6	1523.3
27.5°	1632.0	1589.4	1510.7	1466.6	1439.8
30°	1576.8	1529.6	1441.4	1387.8	1362.6
32.5°	1521.7	1466.6	1372.1	1312.2	1285.4
35°	1458.7	1402.0	1304.3	1236.6	1208.2
37.5°	1395.7	1334.2	1231.9	1156.2	1121.6
40°	1335.8	1266.5	1154.7	1072.8	1036.5
42.5°	1268.1	1198.8	1082.2	990.8	959.3
45°	1198.8	1127.9	1006.6	916.8	879.0
47.5°	1131.0	1052.3	932.6	834.9	801.8
50°	1055.4	981.4	853.8	756.1	719.9
52.5°	987.7	905.8	779.8	677.4	645.9
55°	910.5	833.3	699.4	608.1	576.5
57.5°	841.2	757.7	622.2	535.6	508.8
60°	768.7	682.1	551.3	466.3	439.5
62.5°	696.3	609.6	478.9	400.1	371.8
65°	622.2	535.6	412.7	335.5	318.2
67.5°	548.2	460.0	340.3	282.0	263.1
70°	475.7	390.7	280.4	225.3	207.9
72.5°	403.3	319.8	222.1	179.6	174.9
75°	329.2	253.6	167.0	151.2	148.1
77.5°	261.5	192.2	130.7	121.3	118.1
80°	196.9	132.3	99.2	94.5	91.4
82.5°	135.5	81.9	70.9	66.2	66.2
85°	83.5	48.8	44.1	41.0	41.0
87.5°	37.8	20.5	20.5	18.9	17.3
90°	0.7	8.2	18.0	21.0	22.5
92.5°	17.2	12.7	19.5	24.7	25.5
95°	45.7	15.0	23.2	28.4	28.4
97.5°	83.1	62.1	24.0	29.9	30.7
100°	126.5	141.5	24.7	30.7	31.4
102.5°	175.9	185.7	55.4	30.7	32.2
105°	223.1	231.3	164.0	31.4	32.9
107.5°	273.3	280.0	291.2	175.9	77.9
110°	323.4	329.4	337.6	312.9	205.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	371.3	376.6	384.8	391.5	390.0
115°	418.5	423.0	429.7	437.2	440.2
117.5°	464.9	470.1	473.9	479.9	480.6
120°	507.6	514.3	516.6	522.6	522.6
122.5°	551.0	556.2	559.2	563.0	563.7
125°	589.9	595.9	598.9	600.4	601.9
127.5°	628.9	634.9	638.6	640.8	639.3
130°	664.8	670.8	673.8	676.8	675.3
132.5°	699.2	705.2	707.5	710.5	708.2
135°	734.4	738.9	741.9	744.2	741.9
137.5°	764.4	770.4	771.9	775.6	774.1
140°	794.3	798.8	801.1	804.0	802.5
142.5°	822.0	826.5	828.8	831.0	828.8
145°	847.5	852.7	854.2	855.7	855.7
147.5°	872.2	875.9	877.4	878.9	875.2
150°	894.6	896.9	898.4	899.9	897.6
152.5°	914.8	915.6	916.3	919.3	915.6
155°	933.6	932.1	932.8	936.6	932.1
157.5°	948.5	948.5	947.8	952.3	946.3
160°	962.0	961.3	960.5	965.0	959.8
162.5°	974.7	972.5	971.7	977.0	972.5
165°	984.5	982.2	981.5	987.5	982.2
167.5°	992.7	989.7	989.7	995.7	989.7
170°	999.4	996.4	996.4	1002.4	996.4
172.5°	1003.9	1000.2	1000.9	1006.9	1000.2
175°	1007.7	1003.9	1004.7	1009.9	1003.9
177.5°	1009.2	1005.4	1006.2	1012.2	1004.7
180°	1007.7	1007.7	1007.7	1007.7	1007.7

(END OF REPORT)