

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: P1012276

Luminaire Tested: S123RDIP-B1165D1025UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012276
REPORT IS A COMBINATION OF REPORTS P992945 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B1165D1025UB35-4F0-XX-W2A-F1
Description: Define 3 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

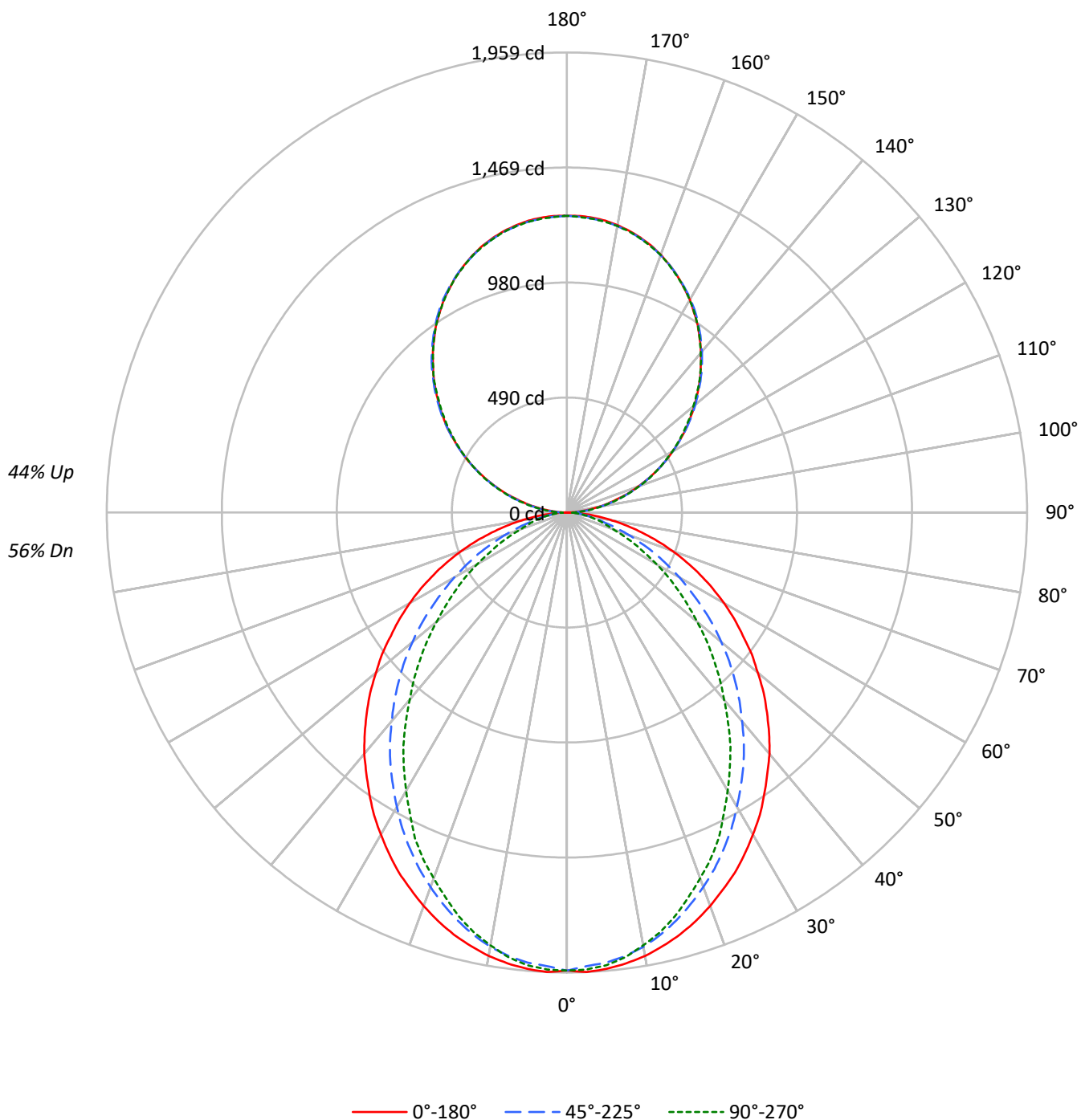
Lumens per Lamp: N/A
Luminaire Lumens: 7910.0 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 89.8
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	101	101	101	101	87	87	87	73	73	73	61	61	61
1	99	95	91	88	92	89	85	82	76	74	72	65	64	62	55	54	53
2	91	84	78	73	84	78	73	68	67	63	60	58	55	52	49	47	45
3	83	74	67	61	77	69	63	57	60	55	51	51	48	45	43	41	39
4	76	66	58	52	71	61	54	49	53	48	44	46	42	39	39	36	34
5	70	59	51	45	65	55	48	42	48	42	38	41	37	34	35	32	29
6	65	53	45	39	60	49	42	37	43	38	33	38	33	30	32	29	26
7	60	48	40	34	56	45	38	33	39	34	29	34	30	26	29	26	23
8	56	43	36	30	52	41	34	29	36	30	26	31	27	24	27	24	21
9	52	40	32	27	48	37	31	26	33	28	24	29	25	21	25	22	19
10	49	37	29	25	45	34	28	24	31	25	21	27	22	19	23	20	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20997	20997	20997
5°	21031	20254	20200
10°	20866	19492	19109
15°	20595	18551	17913
20°	20240	17528	16578
25°	19873	16464	15314
30°	19404	15332	13818
35°	18919	14221	12457
40°	18464	13014	10952
45°	17881	11834	9599
50°	17237	10573	8199
55°	16568	9223	6915
60°	15932	7839	5613
65°	15106	6420	4382
70°	14071	4854	3131
75°	12580	3287	2481
80°	10738	2285	1741
85°	8059	1234	911

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 17881 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.4	2.3
10°-20°	510.1	6.4
20°-30°	734.5	9.3
30°-40°	827.2	10.5
40°-50°	791.2	10.0
50°-60°	647.7	8.2
60°-70°	436.7	5.5
70°-80°	219.0	2.8
80°-90°	59.9	0.8
90°-100°	81.3	1.0
100°-110°	246.1	3.1
110°-120°	419.0	5.3
120°-130°	551.2	7.0
130°-140°	619.6	7.8
140°-150°	609.2	7.7
150°-160°	512.8	6.5
160°-170°	341.4	4.3
170°-180°	119.6	1.5
0°-30°	1428.0	18.1
0°-40°	2255.2	28.5
0°-60°	3694.0	46.7
0°-90°	4409.7	55.7
90°-120°	746.5	9.4
90°-150°	2526.5	31.9
90°-180°	3500.0	44.2
0°-180°	7910.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1951	1951	1951	1951	1951	
5°	1951	1943	1924	1938	1935	185
15°	1860	1843	1799	1791	1780	524
25°	1693	1653	1580	1547	1530	779
35°	1465	1408	1310	1242	1214	917
45°	1204	1133	1011	921	883	929
55°	914	837	702	611	579	820
65°	625	538	414	337	320	618
75°	331	255	168	152	149	352
85°	84	49	44	41	41	92
90°	1	11	24	28	30	10
95°	58	66	73	77	77	65
105°	223	225	234	234	236	239
115°	422	425	423	424	423	417
125°	617	620	618	614	610	550
135°	801	807	806	802	800	617
145°	972	974	976	976	972	607
155°	1112	1112	1113	1117	1110	512
165°	1212	1209	1209	1215	1208	342
175°	1260	1256	1256	1262	1255	120
180°	1263	1263	1263	1263	1263	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1950.7	1950.7	1950.7	1950.7	1950.7
2.5°	1958.6	1952.3	1933.3	1950.7	1947.5
5°	1950.7	1942.8	1923.8	1938.1	1934.9
7.5°	1936.5	1928.6	1904.8	1914.3	1909.6
10°	1917.5	1906.4	1877.9	1879.5	1871.6
12.5°	1890.6	1877.9	1841.5	1840.0	1830.5
15°	1860.5	1843.1	1798.8	1790.9	1779.8
17.5°	1824.1	1805.2	1749.8	1734.0	1718.1
20°	1783.0	1757.7	1697.6	1677.0	1658.0
22.5°	1737.1	1707.1	1642.2	1615.3	1597.9
25°	1692.8	1653.3	1580.5	1547.3	1529.9
27.5°	1639.0	1596.3	1517.2	1472.9	1446.0
30°	1583.7	1536.2	1447.6	1393.8	1368.5
32.5°	1528.3	1472.9	1378.0	1317.9	1291.0
35°	1465.0	1408.1	1310.0	1241.9	1213.5
37.5°	1401.7	1340.0	1237.2	1161.2	1126.4
40°	1341.6	1272.0	1159.7	1077.4	1041.0
42.5°	1273.6	1204.0	1086.9	995.1	963.5
45°	1204.0	1132.8	1011.0	920.8	882.8
47.5°	1135.9	1056.8	936.6	838.5	805.3
50°	1060.0	985.6	857.5	759.4	723.0
52.5°	992.0	909.7	783.1	680.3	648.7
55°	914.4	836.9	702.4	610.7	579.0
57.5°	844.8	761.0	624.9	537.9	511.0
60°	772.1	685.0	553.7	468.3	441.4
62.5°	699.3	612.3	481.0	401.8	373.4
65°	624.9	537.9	414.5	337.0	319.6
67.5°	550.6	462.0	341.7	283.2	264.2
70°	477.8	392.4	281.6	226.2	208.8
72.5°	405.0	321.2	223.1	180.4	175.6
75°	330.7	254.7	167.7	151.9	148.7
77.5°	262.6	193.0	131.3	121.8	118.7
80°	197.8	132.9	99.7	94.9	91.8
82.5°	136.1	82.3	71.2	66.4	66.4
85°	83.9	49.0	44.3	41.1	41.1
87.5°	38.0	20.6	20.6	19.0	17.4
90°	1.0	10.9	23.8	27.8	29.8
92.5°	29.8	35.7	41.7	44.7	42.7
95°	58.5	65.5	73.4	77.4	77.4
97.5°	96.3	101.2	107.2	112.1	111.1
100°	135.0	140.9	145.9	148.9	150.8
102.5°	179.6	182.6	189.5	192.5	191.5
105°	223.3	225.3	234.2	234.2	236.2
107.5°	274.9	275.9	279.8	282.8	281.8
110°	322.5	324.5	326.5	330.5	328.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	372.1	373.1	373.1	378.1	378.1
115°	421.8	424.7	422.7	423.7	422.7
117.5°	472.4	473.4	471.4	471.4	468.4
120°	519.0	525.0	520.0	519.0	517.0
122.5°	567.6	571.6	569.6	566.6	563.7
125°	617.3	620.2	618.2	614.3	610.3
127.5°	662.9	668.9	666.9	660.9	656.9
130°	708.6	716.5	713.5	709.5	702.6
132.5°	754.2	762.1	760.2	755.2	750.2
135°	800.8	806.8	805.8	801.8	799.8
137.5°	843.5	848.5	851.5	846.5	843.5
140°	888.2	893.1	894.1	893.1	886.2
142.5°	928.9	933.8	935.8	934.8	929.8
145°	971.5	973.5	976.5	975.5	971.5
147.5°	1008.2	1012.2	1015.2	1015.2	1009.2
150°	1046.9	1048.9	1050.9	1050.9	1045.0
152.5°	1078.7	1081.7	1082.7	1084.7	1079.7
155°	1112.4	1112.4	1113.4	1117.4	1110.5
157.5°	1141.2	1140.2	1141.2	1145.2	1139.2
160°	1168.0	1166.0	1166.0	1171.0	1167.0
162.5°	1191.8	1188.9	1189.8	1194.8	1187.9
165°	1211.7	1208.7	1208.7	1214.7	1207.7
167.5°	1228.6	1224.6	1225.6	1231.5	1225.6
170°	1242.4	1238.5	1238.5	1245.4	1238.5
172.5°	1253.4	1249.4	1249.4	1255.3	1248.4
175°	1260.3	1256.3	1256.3	1262.3	1255.3
177.5°	1264.3	1260.3	1260.3	1266.3	1259.3
180°	1263.3	1263.3	1263.3	1263.3	1263.3

(END OF REPORT)