

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: P1012282

Luminaire Tested: S123RDIP-B1165D1025UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012282
REPORT IS A COMBINATION OF REPORTS P992951 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B1165D1025UB40-4F0-XX-W2A-F1
Description: Define 3 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

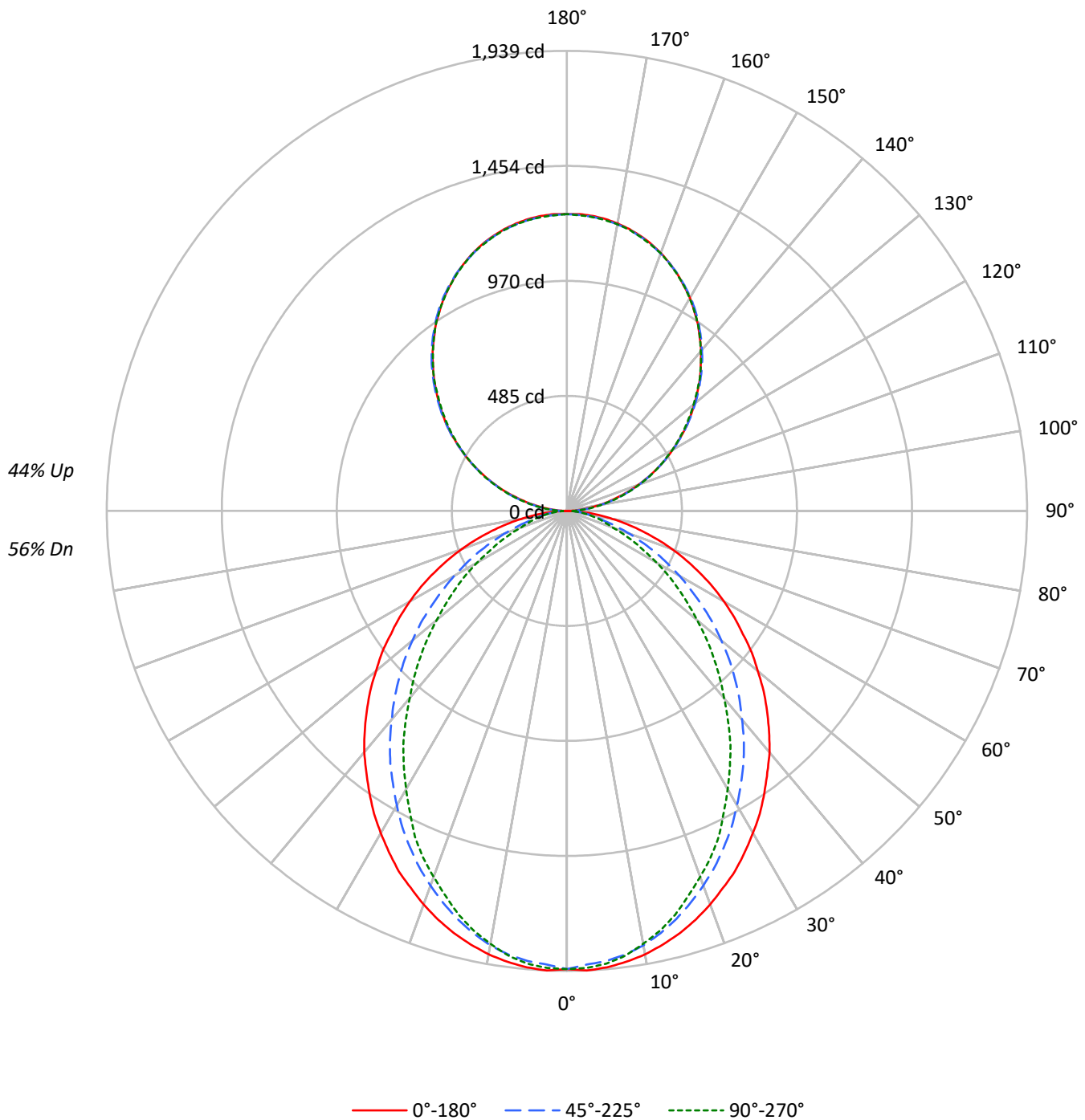
Lumens per Lamp: N/A
Luminaire Lumens: 7832.0 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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°	20787	20787	20787
5°	20821	20052	19998
10°	20657	19298	18918
15°	20390	18367	17735
20°	20038	17353	16413
25°	19675	16299	15161
30°	19210	15180	13680
35°	18731	14079	12332
40°	18279	12884	10842
45°	17701	11715	9503
50°	17064	10467	8117
55°	16403	9131	6847
60°	15771	7762	5557
65°	14956	6356	4338
70°	13929	4806	3101
75°	12454	3254	2456
80°	10630	2262	1722
85°	7973	1222	902

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 17701 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.5	2.3
10°-20°	505.0	6.4
20°-30°	727.2	9.3
30°-40°	818.9	10.5
40°-50°	783.3	10.0
50°-60°	641.2	8.2
60°-70°	432.3	5.5
70°-80°	216.8	2.8
80°-90°	59.3	0.8
90°-100°	80.5	1.0
100°-110°	243.7	3.1
110°-120°	415.0	5.3
120°-130°	545.9	7.0
130°-140°	613.6	7.8
140°-150°	603.2	7.7
150°-160°	507.9	6.5
160°-170°	338.1	4.3
170°-180°	118.4	1.5
0°-30°	1413.8	18.1
0°-40°	2232.6	28.5
0°-60°	3657.2	46.7
0°-90°	4365.7	55.7
90°-120°	739.2	9.4
90°-150°	2502.0	31.9
90°-180°	3466.0	44.3
0°-180°	7832.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1931	1931	1931	1931	1931	
5°	1931	1923	1905	1919	1916	183
15°	1842	1825	1781	1773	1762	519
25°	1676	1637	1565	1532	1515	771
35°	1450	1394	1297	1230	1201	908
45°	1192	1122	1001	912	874	920
55°	905	829	695	605	573	812
65°	619	532	410	334	316	612
75°	327	252	166	150	147	349
85°	83	49	44	41	41	91
90°	1	11	24	28	30	9
95°	58	65	73	77	77	64
105°	221	223	232	232	234	237
115°	418	421	419	420	419	413
125°	611	614	612	608	604	545
135°	793	799	798	794	792	611
145°	962	964	967	966	962	601
155°	1102	1102	1103	1107	1100	507
165°	1200	1197	1197	1203	1196	338
175°	1248	1244	1244	1250	1243	119
180°	1251	1251	1251	1251	1251	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1931.2	1931.2	1931.2	1931.2	1931.2
2.5°	1939.1	1932.8	1914.0	1931.2	1928.1
5°	1931.2	1923.4	1904.6	1918.7	1915.6
7.5°	1917.1	1909.3	1885.8	1895.2	1890.5
10°	1898.3	1887.4	1859.2	1860.8	1852.9
12.5°	1871.7	1859.2	1823.2	1821.6	1812.2
15°	1842.0	1824.7	1780.9	1773.0	1762.1
17.5°	1805.9	1787.1	1732.3	1716.7	1701.0
20°	1765.2	1740.1	1680.6	1660.3	1641.5
22.5°	1719.8	1690.0	1625.8	1599.2	1582.0
25°	1675.9	1636.8	1564.7	1531.8	1514.6
27.5°	1622.7	1580.4	1502.1	1458.2	1431.6
30°	1567.9	1520.9	1433.2	1379.9	1354.8
32.5°	1513.0	1458.2	1364.2	1304.7	1278.1
35°	1450.4	1394.0	1296.9	1229.5	1201.3
37.5°	1387.7	1326.6	1224.8	1149.7	1115.2
40°	1328.2	1259.3	1148.1	1066.6	1030.6
42.5°	1260.9	1191.9	1076.0	985.2	953.9
45°	1191.9	1121.5	1000.9	911.6	874.0
47.5°	1124.6	1046.3	927.2	830.1	797.2
50°	1049.4	975.8	848.9	751.8	715.8
52.5°	982.1	900.6	775.3	673.5	642.2
55°	905.3	828.6	695.4	604.6	573.3
57.5°	836.4	753.4	618.7	532.5	505.9
60°	764.3	678.2	548.2	463.6	437.0
62.5°	692.3	606.2	476.2	397.8	369.6
65°	618.7	532.5	410.4	333.6	316.4
67.5°	545.1	457.4	338.3	280.4	261.6
70°	473.0	388.4	278.8	224.0	206.8
72.5°	401.0	318.0	220.8	178.6	173.9
75°	327.4	252.2	166.0	150.4	147.2
77.5°	260.0	191.1	130.0	120.6	117.5
80°	195.8	131.6	98.7	94.0	90.8
82.5°	134.7	81.4	70.5	65.8	65.8
85°	83.0	48.6	43.9	40.7	40.7
87.5°	37.6	20.4	20.4	18.8	17.2
90°	1.0	10.8	23.6	27.5	29.5
92.5°	29.5	35.4	41.3	44.2	42.3
95°	58.0	64.9	72.7	76.7	76.7
97.5°	95.3	100.2	106.1	111.0	110.1
100°	133.7	139.5	144.5	147.4	149.4
102.5°	177.9	180.8	187.7	190.7	189.7
105°	221.1	223.1	231.9	231.9	233.9
107.5°	272.2	273.2	277.1	280.1	279.1
110°	319.4	321.4	323.3	327.3	325.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	368.5	369.5	369.5	374.4	374.4
115°	417.7	420.6	418.6	419.6	418.6
117.5°	467.8	468.8	466.8	466.8	463.9
120°	514.0	519.9	515.0	514.0	512.0
122.5°	562.1	566.1	564.1	561.1	558.2
125°	611.3	614.2	612.2	608.3	604.4
127.5°	656.5	662.4	660.4	654.5	650.6
130°	701.7	709.5	706.6	702.7	695.8
132.5°	746.9	754.7	752.8	747.9	742.9
135°	793.1	799.0	798.0	794.1	792.1
137.5°	835.3	840.2	843.2	838.3	835.3
140°	879.5	884.5	885.4	884.5	877.6
142.5°	919.8	924.8	926.7	925.7	920.8
145°	962.1	964.1	967.0	966.0	962.1
147.5°	998.5	1002.4	1005.3	1005.3	999.4
150°	1036.8	1038.8	1040.7	1040.7	1034.8
152.5°	1068.2	1071.2	1072.2	1074.1	1069.2
155°	1101.6	1101.6	1102.6	1106.6	1099.7
157.5°	1130.1	1129.2	1130.1	1134.1	1128.2
160°	1156.7	1154.7	1154.7	1159.6	1155.7
162.5°	1180.3	1177.3	1178.3	1183.2	1176.3
165°	1199.9	1197.0	1197.0	1202.9	1196.0
167.5°	1216.6	1212.7	1213.7	1219.6	1213.7
170°	1230.4	1226.5	1226.5	1233.3	1226.5
172.5°	1241.2	1237.3	1237.3	1243.2	1236.3
175°	1248.1	1244.1	1244.1	1250.0	1243.2
177.5°	1252.0	1248.1	1248.1	1254.0	1247.1
180°	1251.0	1251.0	1251.0	1251.0	1251.0

(END OF REPORT)