

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: P1012252

Luminaire Tested: S123RDIP-B1000D805UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012252
REPORT IS A COMBINATION OF REPORTS P992911 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B1000D805UB40-4F0-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

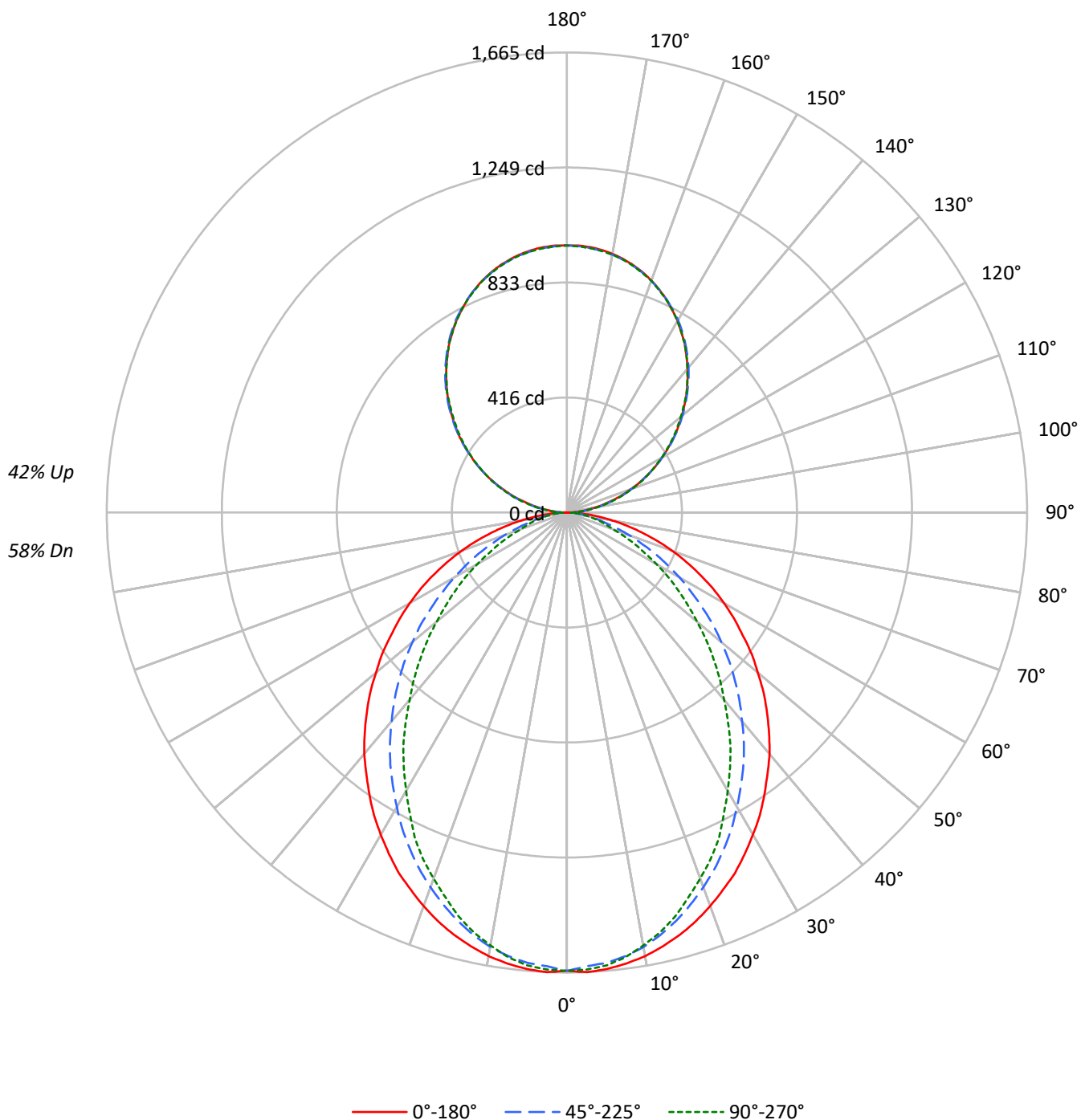
Lumens per Lamp: N/A
Luminaire Lumens: 6427.0 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 67.9
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	75	75	75	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	73	69	69	65	61	59	56	54	51	48	47
3	84	74	67	61	78	70	63	58	61	56	52	53	49	46	45	42	40
4	77	66	58	52	71	62	55	50	54	49	45	47	43	40	41	37	35
5	71	59	51	45	66	55	48	43	49	43	39	43	38	35	37	33	31
6	65	53	45	39	61	50	43	37	44	38	34	39	34	30	33	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	29	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	22	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	6.7
20°-30°	624.5	9.7
30°-40°	703.3	10.9
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°	62.2	1.0
100°-110°	188.3	2.9
110°-120°	320.6	5.0
120°-130°	421.7	6.6
130°-140°	474.0	7.4
140°-150°	466.0	7.3
150°-160°	392.4	6.1
160°-170°	261.2	4.1
170°-180°	91.5	1.4
0°-30°	1214.2	18.9
0°-40°	1917.4	29.8
0°-60°	3140.8	48.9
0°-90°	3749.0	58.3
90°-120°	571.1	8.9
90°-150°	1932.9	30.1
90°-180°	2678.0	41.7
0°-180°	6427.0	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	23	8
95°	45	50	56	59	59	49
105°	171	172	179	179	181	183
115°	323	325	323	324	323	319
125°	472	474	473	470	467	421
135°	613	617	616	613	612	472
145°	743	745	747	746	743	464
155°	851	851	852	855	850	392
165°	927	925	925	929	924	261
175°	964	961	961	966	960	92
180°	966	966	966	966	966	

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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	8.4	18.2	21.3	22.8
92.5°	22.8	27.3	31.9	34.2	32.6
95°	44.8	50.1	56.2	59.2	59.2
97.5°	73.6	77.4	82.0	85.8	85.0
100°	103.3	107.8	111.6	113.9	115.4
102.5°	137.4	139.7	145.0	147.3	146.5
105°	170.8	172.3	179.2	179.2	180.7
107.5°	210.3	211.1	214.1	216.4	215.6
110°	246.7	248.3	249.8	252.8	251.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	284.7	285.5	285.5	289.3	289.3
115°	322.7	324.9	323.4	324.2	323.4
117.5°	361.4	362.1	360.6	360.6	358.4
120°	397.1	401.6	397.8	397.1	395.6
122.5°	434.3	437.3	435.8	433.5	431.2
125°	472.2	474.5	473.0	470.0	466.9
127.5°	507.2	511.7	510.2	505.6	502.6
130°	542.1	548.2	545.9	542.8	537.5
132.5°	577.0	583.1	581.6	577.8	574.0
135°	612.7	617.2	616.5	613.4	611.9
137.5°	645.3	649.1	651.4	647.6	645.3
140°	679.5	683.3	684.1	683.3	678.0
142.5°	710.6	714.4	715.9	715.2	711.4
145°	743.3	744.8	747.1	746.3	743.3
147.5°	771.4	774.4	776.7	776.7	772.1
150°	801.0	802.5	804.0	804.0	799.5
152.5°	825.3	827.5	828.3	829.8	826.0
155°	851.1	851.1	851.8	854.9	849.6
157.5°	873.1	872.3	873.1	876.1	871.6
160°	893.6	892.1	892.1	895.9	892.8
162.5°	911.8	909.5	910.3	914.1	908.8
165°	927.0	924.7	924.7	929.3	924.0
167.5°	939.9	936.9	937.6	942.2	937.6
170°	950.5	947.5	947.5	952.8	947.5
172.5°	958.9	955.9	955.9	960.4	955.1
175°	964.2	961.2	961.2	965.7	960.4
177.5°	967.2	964.2	964.2	968.8	963.4
180°	966.5	966.5	966.5	966.5	966.5

(END OF REPORT)