

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: P1011226

Luminaire Tested: S123DIP-B1000D805UB40-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011226
REPORT IS A COMBINATION OF REPORTS P989307 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B1000D805UB40-4F0-XX-W2A-F
Description: Define 3 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

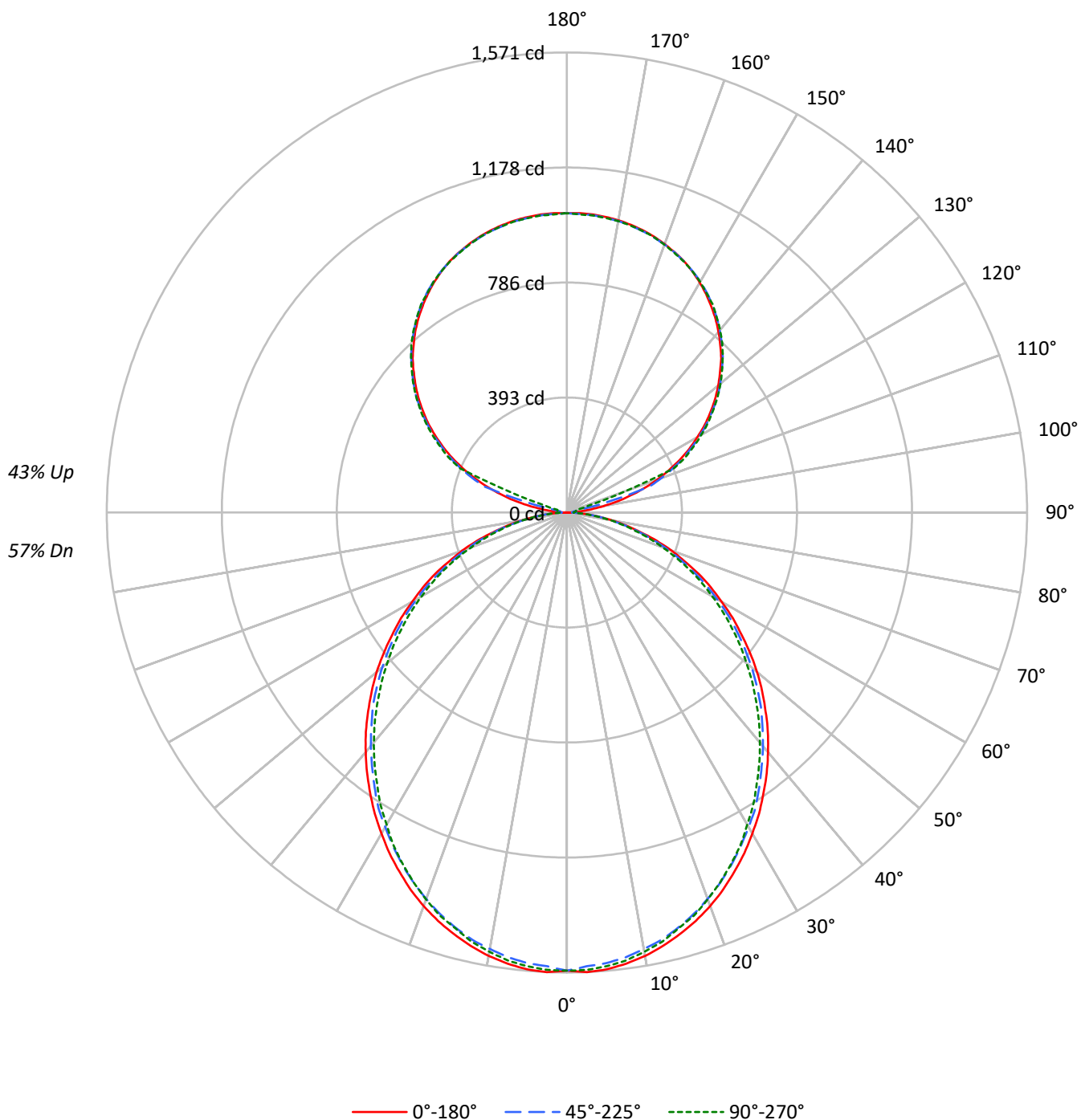
Lumens per Lamp: N/A
Luminaire Lumens: 7189.0 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	101	101	101	101	87	87	87	74	74	74	62	62	62
1	99	95	91	87	92	88	85	82	76	74	71	65	63	62	55	54	52
2	90	83	77	71	84	77	72	67	67	63	59	57	54	51	48	46	44
3	82	73	65	59	76	68	61	56	59	54	50	51	47	43	43	40	38
4	75	64	56	50	70	60	53	48	52	47	42	45	41	37	38	35	32
5	69	57	49	43	64	54	46	41	47	41	37	40	36	32	34	31	28
6	64	52	43	37	59	48	41	36	42	36	32	37	32	28	31	28	25
7	59	47	38	33	55	44	36	31	38	32	28	33	29	25	29	25	22
8	55	42	34	29	51	40	33	28	35	29	25	30	26	22	26	23	20
9	51	39	31	26	47	36	29	25	32	26	22	28	23	20	24	21	18
10	48	35	28	23	44	33	27	22	30	24	20	26	21	18	22	19	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16841	16841	16841
5°	16884	16260	16236
10°	16733	15710	15549
15°	16500	15138	14799
20°	16234	14502	14058
25°	15889	13832	13264
30°	15511	13138	12430
35°	15115	12429	11601
40°	14701	11685	10784
45°	14245	10959	9933
50°	13783	10151	9078
55°	13187	9310	8211
60°	12575	8380	7288
65°	12000	7375	6326
70°	11173	6261	5204
75°	9978	4958	4041
80°	8616	3484	2858
85°	6724	1874	1432

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14245 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.5	2.1
10°-20°	416.5	5.8
20°-30°	615.1	8.6
30°-40°	718.4	10.0
40°-50°	722.2	10.0
50°-60°	634.4	8.8
60°-70°	472.5	6.6
70°-80°	268.9	3.7
80°-90°	78.5	1.1
90°-100°	36.0	0.5
100°-110°	174.2	2.4
110°-120°	426.9	5.9
120°-130°	541.9	7.5
130°-140°	578.9	8.1
140°-150°	541.4	7.5
150°-160°	436.7	6.1
160°-170°	281.8	3.9
170°-180°	97.1	1.4
0°-30°	1179.1	16.4
0°-40°	1897.5	26.4
0°-60°	3254.2	45.3
0°-90°	4074.0	56.7
90°-120°	637.1	8.9
90°-150°	2299.4	32.0
90°-180°	3115.0	43.3
0°-180°	7189.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1565	1565	1565	1565	1565	
5°	1566	1559	1544	1558	1555	149
15°	1491	1485	1468	1478	1470	420
25°	1353	1345	1328	1329	1325	623
35°	1170	1162	1145	1137	1130	732
45°	959	954	936	920	914	741
55°	728	726	709	694	688	652
65°	496	490	476	466	461	490
75°	262	257	253	246	242	280
85°	70	67	67	65	65	75
90°	1	8	18	21	23	7
95°	46	15	24	29	29	55
105°	226	235	166	32	33	240
115°	424	429	436	443	446	419
125°	598	604	607	609	610	534
135°	745	749	752	755	752	573
145°	859	865	866	868	868	538
155°	947	945	946	950	945	436
165°	998	996	995	1001	996	282
175°	1022	1018	1019	1024	1018	97
180°	1022	1022	1022	1022	1022	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1564.6	1564.6	1564.6	1564.6	1564.6
2.5°	1571.3	1566.0	1551.2	1564.6	1563.3
5°	1566.0	1559.2	1544.4	1557.9	1555.2
7.5°	1553.9	1547.1	1532.3	1544.4	1543.1
10°	1537.7	1531.0	1513.5	1525.6	1522.9
12.5°	1516.2	1510.8	1494.7	1502.7	1501.4
15°	1490.6	1485.2	1467.8	1478.5	1470.4
17.5°	1462.4	1455.6	1438.2	1446.2	1443.5
20°	1430.1	1422.0	1404.5	1409.9	1405.9
22.5°	1393.8	1385.7	1368.2	1372.2	1366.9
25°	1353.4	1345.3	1327.8	1329.2	1325.1
27.5°	1311.7	1303.6	1284.8	1286.1	1282.1
30°	1266.0	1259.2	1240.4	1240.4	1231.0
32.5°	1220.2	1210.8	1197.3	1187.9	1183.9
35°	1170.4	1162.4	1144.9	1136.8	1130.1
37.5°	1120.7	1109.9	1092.4	1083.0	1079.0
40°	1068.2	1060.1	1041.3	1030.5	1025.1
42.5°	1015.7	1006.3	987.5	976.7	971.3
45°	959.2	953.8	936.3	920.2	913.5
47.5°	904.1	896.0	879.8	863.7	858.3
50°	847.6	840.8	823.3	808.5	800.5
52.5°	788.4	784.3	765.5	753.4	745.3
55°	727.8	726.5	709.0	694.2	687.5
57.5°	671.3	665.9	652.5	639.0	631.0
60°	609.4	608.1	591.9	579.8	573.1
62.5°	554.3	550.2	534.1	522.0	518.0
65°	496.4	489.7	476.2	465.5	461.4
67.5°	434.5	429.2	418.4	409.0	403.6
70°	379.4	371.3	363.2	353.8	347.1
72.5°	321.5	316.2	306.7	298.7	296.0
75°	262.3	257.0	252.9	246.2	242.2
77.5°	209.9	207.2	201.8	196.4	196.4
80°	158.7	154.7	152.0	150.7	150.7
82.5°	109.0	109.0	109.0	106.3	104.9
85°	70.0	67.3	67.3	64.6	64.6
87.5°	35.0	30.9	29.6	28.3	28.3
90°	0.8	8.4	18.2	21.3	22.8
92.5°	17.5	12.9	19.7	25.1	25.8
95°	46.3	15.2	23.5	28.8	28.8
97.5°	84.3	63.0	24.3	30.4	31.1
100°	128.3	143.5	25.1	31.1	31.9
102.5°	178.4	188.3	56.2	31.1	32.6
105°	226.2	234.6	166.2	31.9	33.4
107.5°	277.1	283.9	295.3	178.4	78.9
110°	327.9	334.0	342.4	317.3	208.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	376.5	381.8	390.2	397.0	395.5
115°	424.3	428.9	435.7	443.3	446.4
117.5°	471.4	476.7	480.5	486.6	487.4
120°	514.7	521.5	523.8	529.9	529.9
122.5°	558.7	564.0	567.1	570.9	571.6
125°	598.2	604.3	607.3	608.8	610.3
127.5°	637.7	643.7	647.5	649.8	648.3
130°	674.1	680.2	683.2	686.2	684.7
132.5°	709.0	715.1	717.4	720.4	718.1
135°	744.7	749.2	752.3	754.6	752.3
137.5°	775.1	781.1	782.7	786.4	784.9
140°	805.4	810.0	812.3	815.3	813.8
142.5°	833.5	838.1	840.3	842.6	840.3
145°	859.3	864.6	866.2	867.7	867.7
147.5°	884.4	888.2	889.7	891.2	887.4
150°	907.1	909.4	910.9	912.5	910.2
152.5°	927.6	928.4	929.2	932.2	928.4
155°	946.6	945.1	945.9	949.7	945.1
157.5°	961.8	961.8	961.0	965.6	959.5
160°	975.5	974.7	973.9	978.5	973.2
162.5°	988.4	986.1	985.3	990.6	986.1
165°	998.2	996.0	995.2	1001.3	996.0
167.5°	1006.6	1003.6	1003.6	1009.6	1003.6
170°	1013.4	1010.4	1010.4	1016.5	1010.4
172.5°	1018.0	1014.2	1014.9	1021.0	1014.2
175°	1021.8	1018.0	1018.7	1024.0	1018.0
177.5°	1023.3	1019.5	1020.3	1026.3	1018.7
180°	1021.8	1021.8	1021.8	1021.8	1021.8

(END OF REPORT)