

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: P999876

Luminaire Tested: SA2XXRDIP-B675D1080UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P999876
REPORT IS A COMBINATION OF REPORTS P988431 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B675D1080UB2750-4F0-XX-W2A-F_3500K
Description: Define 2 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

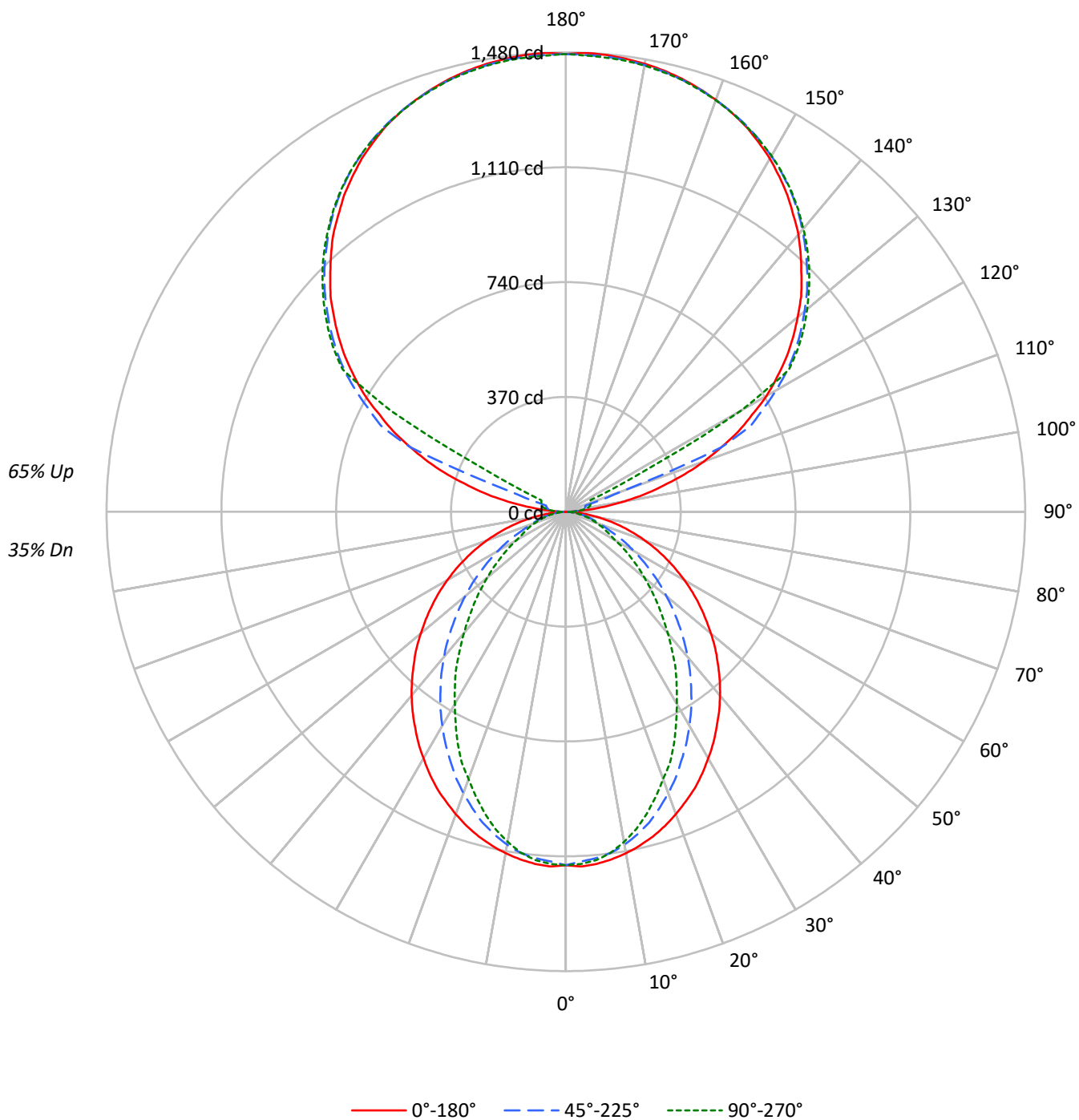
Lumens per Lamp: N/A
Luminaire Lumens: 6666.9 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 70.9
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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43
1	95	91	87	84	86	82	79	76	66	64	62	52	50	49	38	37	36
2	87	80	74	69	78	72	67	63	58	55	52	46	43	41	34	32	31
3	79	70	63	58	71	64	58	53	52	48	44	41	38	35	30	29	27
4	73	62	55	49	65	57	50	45	46	41	38	36	33	31	27	25	24
5	67	56	48	42	60	51	44	39	41	36	33	33	29	27	25	22	21
6	61	50	42	37	55	46	39	34	37	32	29	30	26	23	23	20	18
7	57	45	37	32	51	41	35	30	34	29	25	27	23	21	21	18	16
8	53	41	33	28	48	37	31	26	31	26	22	25	21	19	19	17	15
9	49	37	30	25	44	34	28	24	28	24	20	23	19	17	18	15	13
10	46	34	27	23	41	31	25	21	26	21	18	21	18	15	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18026	18026	18026
5°	18056	17149	17022
10°	17877	16265	15728
15°	17631	15221	14253
20°	17306	14034	12712
25°	16973	12817	11299
30°	16526	11630	9758
35°	16088	10434	8435
40°	15643	9259	7072
45°	15124	8046	5883
50°	14590	6877	4789
55°	14032	5708	3802
60°	13385	4565	2876
65°	12638	3480	2339
70°	11736	2524	1859
75°	10606	1925	1420
80°	8966	1304	952
85°	6258	598	461

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15124 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.7	1.6
10°-20°	293.0	4.4
20°-30°	411.3	6.2
30°-40°	448.4	6.7
40°-50°	412.1	6.2
50°-60°	323.6	4.9
60°-70°	210.7	3.2
70°-80°	108.4	1.6
80°-90°	30.3	0.5
90°-100°	48.6	0.7
100°-110°	181.2	2.7
110°-120°	480.7	7.2
120°-130°	797.2	12.0
130°-140°	846.8	12.7
140°-150°	787.0	11.8
150°-160°	632.7	9.5
160°-170°	407.7	6.1
170°-180°	140.3	2.1
0°-30°	811.1	12.2
0°-40°	1259.4	18.9
0°-60°	1995.2	29.9
0°-90°	2344.6	35.2
90°-120°	710.5	10.7
90°-150°	3141.6	47.1
90°-180°	4322.0	64.8
0°-180°	6666.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1139	1139	1139	1139	1139	
5°	1139	1134	1120	1130	1126	108
15°	1083	1072	1037	1017	1007	305
25°	983	950	882	840	824	452
35°	847	795	704	639	616	530
45°	692	624	515	442	417	535
55°	527	446	335	273	254	471
65°	356	272	179	144	141	352
75°	190	118	82	75	74	201
85°	44	23	20	20	20	51
90°	1	13	21	27	29	6
95°	69	34	42	47	46	82
105°	324	356	65	77	81	347
115°	613	632	658	164	88	604
125°	867	881	902	909	912	774
135°	1073	1090	1100	1111	1108	829
145°	1245	1244	1262	1270	1264	779
155°	1371	1361	1374	1380	1372	632
165°	1444	1438	1441	1449	1441	408
175°	1478	1470	1472	1480	1469	141
180°	1474	1474	1474	1474	1474	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1138.8	1138.8	1138.8	1138.8	1138.8
2.5°	1143.9	1138.8	1127.4	1137.7	1135.7
5°	1138.8	1133.6	1120.2	1129.5	1126.4
7.5°	1129.5	1123.3	1108.9	1113.0	1107.8
10°	1117.1	1109.9	1089.3	1086.2	1080.0
12.5°	1101.7	1092.4	1064.6	1058.4	1047.0
15°	1083.1	1071.8	1036.7	1017.2	1006.8
17.5°	1061.5	1045.0	1001.7	979.0	962.5
20°	1036.7	1016.1	964.6	938.8	916.2
22.5°	1009.9	986.2	926.5	891.4	876.0
25°	983.1	950.2	882.2	839.9	824.4
27.5°	951.2	916.2	840.9	792.5	768.8
30°	917.2	878.0	795.6	743.0	715.2
32.5°	884.2	836.8	752.3	690.5	664.7
35°	847.1	794.6	703.9	638.9	616.3
37.5°	811.0	754.4	658.5	587.4	561.6
40°	772.9	711.1	611.1	537.9	511.2
42.5°	733.8	667.8	563.7	487.4	461.7
45°	692.5	623.5	515.3	442.1	417.4
47.5°	653.4	580.2	468.9	395.7	373.1
50°	610.1	536.9	423.6	352.4	330.8
52.5°	567.8	490.5	380.3	312.3	292.7
55°	526.6	446.2	334.9	273.1	253.5
57.5°	484.4	401.9	294.7	237.0	220.5
60°	441.1	358.6	252.5	199.9	183.4
62.5°	398.8	316.4	216.4	166.9	158.7
65°	355.5	272.1	179.3	144.3	141.2
67.5°	314.3	230.8	144.3	126.8	123.7
70°	271.0	190.7	119.5	109.2	105.1
72.5°	229.8	153.6	100.0	91.7	89.7
75°	189.6	117.5	82.4	75.2	74.2
77.5°	149.4	83.5	64.9	60.8	58.7
80°	112.3	59.8	49.5	45.3	45.3
82.5°	78.3	40.2	34.0	31.9	31.9
85°	44.3	22.7	19.6	19.6	19.6
87.5°	16.5	8.2	8.2	7.2	7.2
90°	1.1	12.8	21.3	26.7	28.8
92.5°	26.7	22.4	25.6	27.7	28.8
95°	69.3	34.1	41.6	46.9	45.9
97.5°	124.8	37.3	54.4	57.6	58.7
100°	188.8	42.7	60.8	69.3	71.5
102.5°	259.2	257.1	62.9	74.7	77.9
105°	324.3	356.3	65.1	76.8	81.1
107.5°	400.1	426.7	67.2	78.9	83.2
110°	472.6	495.0	186.7	80.0	84.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	540.9	560.1	542.0	82.1	85.3
115°	613.4	631.6	658.2	164.3	87.5
117.5°	676.4	697.7	715.9	563.3	283.8
120°	746.8	762.8	782.0	794.8	650.8
122.5°	806.5	823.6	844.9	851.4	852.4
125°	867.4	881.2	901.5	909.0	912.2
127.5°	922.8	937.8	953.8	964.4	965.5
130°	975.1	992.2	1003.9	1015.6	1014.6
132.5°	1028.4	1042.3	1054.1	1063.7	1062.6
135°	1073.3	1090.3	1099.9	1110.6	1108.5
137.5°	1120.2	1133.0	1143.7	1154.3	1151.1
140°	1166.1	1174.6	1186.3	1195.9	1190.6
142.5°	1204.5	1211.9	1225.8	1234.4	1229.0
145°	1245.0	1244.0	1262.1	1269.6	1264.2
147.5°	1280.2	1277.0	1295.2	1300.5	1296.2
150°	1314.4	1306.9	1324.0	1330.4	1325.0
152.5°	1343.2	1334.6	1350.6	1357.0	1349.6
155°	1370.9	1361.3	1374.1	1380.5	1372.0
157.5°	1393.3	1384.8	1394.4	1401.8	1393.3
160°	1412.5	1406.1	1412.5	1418.9	1411.4
162.5°	1429.6	1423.2	1428.5	1436.0	1426.4
165°	1444.5	1438.1	1441.3	1448.8	1441.3
167.5°	1456.3	1449.9	1453.1	1460.5	1450.9
170°	1465.9	1459.5	1461.6	1469.1	1459.5
172.5°	1472.3	1465.9	1468.0	1475.5	1465.9
175°	1477.6	1470.1	1472.3	1479.7	1469.1
177.5°	1479.7	1472.3	1473.3	1480.8	1471.2
180°	1474.4	1474.4	1474.4	1474.4	1474.4

(END OF REPORT)